UNIVERSITY OF LONDON

UNIVERSITY COLLEGE ANNUAL REPORT 1957-1958

UNIVERSITY COLLEGE
LONDON

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OFFICERS OF THE COLLEGE

CHAIRMAN OF THE COLLEGE COMMITTEE

THE RIGHT HON. LORD COHEN

VICE-CHAIRMAN OF THE COLLEGE COMMITTEE AND TREASURER

SIR FREDERICK JAMES, O.B.E.

PROVOST

SIR IFOR EVANS, D.LIT.

SECRETARY

E. A. L. GUETERBOCK, M.A.

REPORT OF THE CHAIRMAN OF THE COLLEGE COMMITTEE AND THE PROVOST

The year was the first of a new quinquennium. The College had prepared careful plans for academic development during the next five years. There has, therefore, been a keen sense of disappointment that the funds available have not permitted any new academic project to be financed from College income throughout the whole session.

At first sight the increase in income might seem substantial enough to allow room for adequate and orderly progress, but the whole of the amount available was absorbed in the rising costs of existing activities. Thus, the increase in academic salaries, which the University Grants Committee negotiated with the Treasury and applied to all Universities, absorbed £123,563; and to this had to be added the inevitable consequential cost of increases in the salaries and wages of other groups of staff. Hence, in a year when the income of the College was higher than it had ever been before, not only was no new academic development possible, but it was necessary to curtail severely the proper provisions for long term maintenance and the replacement of capital installations.

The income rose to £1,522,883. Of this £1,289,970 was the grant from the Court of the University, a consolidation of the College's share of the University Grants Committee's grant and of the grants of the London County Council and of the Home Counties. An increase in the grant of the London County Council was most welcome in a difficult year. The increase in the year's income was £257,904. Of this, £123,563 was an earmarked grant for academic salaries, £102,800 was a general increase in the Court Grant, and some £25,000 was obtained from an increase in tuition fees as the result of the introduction of a system of unified and revised fees throughout the University, towards which a first step was taken by the College in 1956–57.

The measure of the revisions which the College had to make in its plans can be seen from the fact that projected new developments would have cost £110,640 and that for these only £31,700 was available. The brunt of all the 'cuts' had to be borne by the academic departments and the Library.

Among the academic staff there is a certain sense of frustration in the knowledge that the income of the College is substantial and

that the amount required for new development, though comparatively small, cannot be met when routine expenditure has been provided for. At the same time, academic development has been far from reaching a standstill. The College has always been fortunate in being able to attract grants from public bodies, the great foundations, industry, and from individuals. In all, £120,000 was received from these sources for research undertakings—an increase of £23,000 over the previous year.

Encouraging though this is, it does not compensate for the absence of general funds from the College's own income by which younger workers might be encouraged. Nor does it admit the planning of research, often of a fundamental character, which is not of a nature to attract outside grants.

While the situation, as far as recurrent expenditure is concerned, presents these difficulties, progress has been made in the construction of new accommodation and in the adaptation of existing premises. During the year £413,700 has been expended in this way.

The erection of the Biological Sciences block on the Gower Street front continues. The first stage was completed in December 1957 and accommodated sections of the Departments of Anthropology, Biochemistry, and Biophysics. The second stage will be finished later in 1958, when Anthropology will be completely re-housed. Meanwhile work is in progress on the construction of the third stage, and the erection of the fourth stage will begin before the end of 1958. It is hoped to make an early start on the fifth and last stage of this building. When completed the block will also house the Department of Botany.

The construction of the new Engineering building has begun on a site south of the Biological Sciences block with frontages to Gower Street and Torrington Place. Building operations on the first stage of the Torrington Place frontage started in May 1958 and it is expected that work on the second stage, which will provide additional floors to the first stage of the building, will proceed later in the year. As recorded in earlier Annual Reports, very generous donations have been made by industry towards the cost of the first stage.

The conversion of 25 Gordon Street has proved a difficult undertaking, but it was possible to move the Departments of Astronomy and Mathematics into their new accommodation on the fifth to the eighth floors in October 1958. The other floors, which will accommodate the Students' Union, laboratories and a lecture theatre for the Department of Physics, and additional accommodation for

the Department of Chemical Engineering, will be ready for occupation in December 1958. Work on the second stage of the animal house to the south of the Medical Sciences building is in progress, and the building should be ready for occupation by the end of 1958. The conversion of 16 Gordon Square was completed in time for its occupation by the Department of Psychology in September 1958. The new tea pavilion and groundsman's house at the Shenley Sports Ground has been completed, and the pavilion was formally opened by Sir Frederick James on 12 March 1958. Preliminary plans are being prepared for further developments at Shenley, which will include new changing rooms and sanitary accommodation.

The planning of the students' refectory has reached an advanced stage. The refectory and kitchens will be under the General Library, with stores and other ancillary rooms in the basement of the main building. Sir Simon Marks, through his own Charitable Trust and through Marks and Spencer Limited, has made very generous donations, totalling £60,000, towards the cost of this scheme. After protracted negotiations, agreement has been reached between the University and the National Central Library and the Library Association on the proposal that the two library institutions should be established in Store Street, W.C.1, so that their existing premises within the College rectangle can then be occupied by the College.

Details of the student population will be found in Appendices VII and VIII of this Report. The total number of students, undergraduate and postgraduate, exceeded 3,600 for the first time in the history of the College. The increase in full-time students was again marked : there were a hundred more than in the previous session. These figures are all the more impressive when it is realised that the College has ceased all teaching for Intermediate and General Degree courses. The main increase was again in the Faculty of Arts. Limitation of accommodation has made increases in the Science and Engineering departments most difficult, but there has been an increase of some fifty students in these Faculties. The number of postgraduate students has exceeded 800 for the first time and shows an increase of 40 per cent over the figure of ten years ago. Nearly half the total number of postgraduates were in the Faculties of Science and Engineering.

A detailed report on the academic work of the College over a five-year period was published two years ago as a separate publication. Here it is possible only to give a few of the new and more interesting developments. The achievement of the departments

in research can be most readily estimated by the lists of publications given in another section of this Report.

The Department of Egyptology has had an interesting and important year. The transfer of the Edwards Library and the arrangement of additional museum accommodation in the Department's new quarters were completed by the end of October 1957. Thus, after an interval of nearly twenty years, the various branches of the Department were brought together again. With the new museum space now available, the identification and restoration of objects from the Flinders Petrie Collection have gone forward with new rapidity and more than two-thirds of the Collection is now on exhibition and available for study. The Edwards Library is also being completely re-organised on a new method of subject grouping. The Egypt Exploration Society entrusted the Head of the Department of Egyptology, Professor W. B. Emery, with the opening of new research and excavation at Buhen in the northern Sudan. In this work he was assisted by a student of the Department. The excavation resulted in the discovery of a Middle Kingdom fortress (2000 B.C.) in a splendid state of preservation. This work will not only be of great value to the historian of Egypt, but will undoubtedly open up a new field for the student of military architecture. Owing to the difficult political situation in Egypt itself, there appears to be little likelihood of any immediate resumption of excavations at Sakkara. However, the Egyptian Government has not cancelled the concession, and it is hoped that when conditions improve the work will be resumed. Dr A. J. Arkell was the archaeologist on the British Ennedi Expedition which travelled 10,000 miles by Land Rover between August and December, crossing the Libyan Desert from north to south and back, and also visiting the amazon stone quarry of Eghei Zumma in north-east Tibesti, one of the possible sources of amazon stone used in ancient Egypt. A special study was made of the prehistory of the Wanyanga lake area with a view to tracing connections with the Nile Valley.

In the Department of Geography the Leverhulme Trust has established a Lectureship in Latin American Geography, which will be the first lectureship in this subject in any university department in this country. This is an academic development long planned by the College, which would not have been attainable if the College had had to rely on its own resources.

Although the main teaching work of the Department of Political Economy has, as in earlier years, been concerned with students who are candidates for the B.Sc.(Econ.) Degree, the recently instituted

course leading to the joint Degree in Philosophy and Economics is now becoming of some importance. The first final examination for this Degree will be held in 1959.

For the first time the Department of Town Planning has begun an academic study of the planning and design problems of a town of metropolitan size and character, on a synthetic as opposed to an analytical basis. Diploma students presented for public discussion a theoretical study for an industrial and cultural centre with an eventual planned population of 300,000. This study served as an agenda for discussion at the Housing Centre and other professional meetings. At the same time a survey and practical development proposals were prepared for the small town of Newhaven in Sussex. After discussion in London, the drawings and report were presented to the Urban District Council at Newhaven and were the focus of a lively debate on the future of the town. The Committee for Urban Studies, which is housed in the Department, received in December 1957 a generous grant from the Ford Foundation and a supplementary grant from the Sir Halley Stewart Trust. The Committee has embarked on a programme of research into socio-economic characteristics of urban communities in Britain. Its first series of studies is mainly concerned with the London Region. Professor Sir William Holford has visited Canada and Rhodesia. His report on the future of Canberra, in the Australian Capital Territory, was tabled in the Federal Houses of Parliament and appears to have been well received. Some recommendations are still under discussion and others have been adopted.

The research activity of the Department of Geology in Northern Norway has continued during the session at its highest rate so far. The party consisted of three members of staff, four research students and four undergraduate students. The field mapping class for the final year Honours students was held in the Swiss Jura in co-operation with the Geological Institute of the University of Neuchâtel. Active work continued on the old red sandstone of south-west Ireland. An interesting development was initiated in a programme of research on the lake floor sediments of Lake Windermere in collaboration with the Freshwater Biological Association's Research Station there.

In the Chemistry Department work on nuclear magnetic resonance with the high-resolution equipment given by the Wellcome Trust is in full operation, and it has become closely integrated with the general research of the Department in both organic and inorganic chemistry. Whenever structure is in question, the nuclear magnetic

spectrum can supply some part of the evidence needed for its determination—and often the crucial part. Two publications have already appeared which depend essentially on information obtained in this way and many more will follow. Work on the ultra-violet absorption spectra in oriented single crystals of known crystal structure by polarised light at liquid-helium temperature is under way. A new 3-metre concave-grating vacuum spectograph has been installed to aid this work, which has required a long period of methodological development. A considerable part of the work consists of the calculation of crystal spectra for comparison with experiment. The importance of the study is that the known methods of identifying molecular electronic states are limited to very simple molecules and have now exhausted their usefulness, but the comparison of gas and crystal spectra provides a new and potentially much more general method. Electronic computing has effected a great change in the practice of crystallography but adjustment to it is not yet complete. So few workers can obtain so many results so quickly that some strain is placed on senior staff in the matter of interpretation and the planning of strategy. The first optically resolved organo-metallic compound, whose only asymmetric site involves the metal, has been obtained; with its aid, the study of a new side of substitution at carbon (saturated electrophilic substitution) has been opened up. The attempts of the last five years to establish the study of mechanism in inorganic chemical substitutions, following the model of the analogous organic chemical study, as developed in the last few decades, was made the subject of a lecture at the Kekulé Centenary Symposium held in London. This is a difficult field with rich prospects, and it is now suffering from lack of the needed combination of experience with continuity of attention, though the experience is available.

In the Department of Eugenics, Biometry and Genetics, the Medical Research Council Group for Experimental Research in Inherited Diseases has continued work in the physiological and pathological mechanisms which lead to the development of inherited abnormalities and diseases during embryonic life and after birth. A group of abnormalities of the axial skeleton of the mouse have been studied and investigations have been conducted on a gene which, in single dose, produces a trivial variation (spotting) but, in double dose, an extreme type of monstrosity. Research in the development of an inherited defect of the eye and investigations into correlations between minor variants of the skeleton have been continued.

In the Department of Physics the research programme has developed in many directions during the past year. The first experiments in the Department's programme of upper atmospheric research, using equipment carried in the Ministry of Supply's rocket 'Skylark', were carried out in November 1957 and April 1958. Further experiments are to be carried out during the next six months. Work has also been initiated in the development of accurate photo-electric tracking of artificial earth satellites. The new microtron is now in operation providing electrons of 28 million electron volts energy. The high pressure cloud chamber is in operation at Harwell, and plans have been made to work also on the new proton linear accelerator which will be the first piece of equipment operated by the new National Institute for Research in Nuclear Science. The design of the heavy liquid bubble chamber for use at this Institute and elsewhere is proceeding. A successful start has been made on the experiments using the synchro-cyclotron at the Centre Européen de Recherches Nucléaires in Geneva. The co-operative study of strange particles, using nuclear emulsions, is continuing, and attention is being paid to the possibility of automatic track analysis. The new high voltage equipment, to be used in the new laboratories in 25 Gordon Street, is largely constructed and will be ready to be moved in as soon as the building is available.

During the academic year 1957–58 the Department of Zoology instituted a new practical course in which all zoology students, and not merely specialists in one branch or another, are introduced to a variety of modern experimental techniques. While a number of members of the Department travelled overseas fulfilling lecture or research engagements, particular importance is attached to a visit of Dr Pamela Lamplugh Robinson to India, at the invitation of the Indian Statistical Institute, which has opened up new possibilities for palaeontological research and has led to the setting up of a new research programme in the Institute and in this College. The Department has continued the research which has given it a leading position in the field of immunology of transplantation, and has begun a modest expansion of research in genetics and embryology.

In the Department of Mechanical Engineering the teaching of Theory of Machines at the Part I level of the Degree course has been brought much closer to basic applied mechanics. This is the first stage of a scheme to make all the teaching of Theory of Machines fundamental; in this way it will become possible to introduce Automatic Control and a more modern approach to Mechanical Vibration in Parts II and III. A comprehensive

programme of research has been started on the vibration of rotating shafts. The British Transport Commission has placed a research contract with the College for fundamental investigation into the dynamics of railway rolling-stock.

In the Department of Electrical Engineering a new thermionic valve research laboratory in one of the Gordon Square houses has been brought into use. A Postgraduate Diploma in Microwave Engineering has been established. A symposium arranged by the Admiralty on 'High frequency gas discharges' was held in the Department of Electrical Engineering in December 1957. The Department subscribed three novel exhibits to the Institution of Electrical Engineers International Microwave Valve Convention in May 1958.

A Lectureship in Biochemical Engineering has been established in the Department of Chemical Engineering, through the generosity of Arthur Guinness Son and Company (Park Royal) Ltd. This is an example of the way in which a great industrial firm has helped us to new developments in a period when no funds for these purposes were available from the general College income.

Work in the Department of Anatomy and Embryology has continued on many distinct lines. The social behaviour of cells in tissue culture has been studied in the Embryology section. The histology and function of the nervous system, especially the hippocampus and hypothalamus and spinal cord, have occupied various sections. Investigations have continued on the formation of connective tissue in wound healing. The electron microscope section has been concerned with problems of the central and peripheral nervous system, and has been greatly enlarged by the addition of a further microscope and ancillary laboratories and equipment provided by the University Grants Committee. This will allow courses in the subject and much further research to be undertaken. Other subjects investigated have included the structure of the ear in insects and learning in the nervous system of octopuses, in connection with which an analogue learning machine based on the principles of connection discovered in the nervous system has been developed. A generous grant has been obtained from the Nuffield Foundation for the development of a larger version of this machine.

A special equipment grant to the Department of Biophysics from the University Grants Committee, together with a new quinquennial grant from the Nuffield Foundation, will enable the Department to expand its research activities and, in particular, to study the mechanism of excitable tissues by a combination of physiological

and electron-microscopic methods. The benefits, however, of the added space and equipment will not be fully utilized until the establishment for academic posts is increased. In the meantime, the Department continues to rely heavily on the help given by several Honorary Research Assistants, recruited mainly from postgraduate visitors.

In the Department of Pharmacology, the laboratories in the original Department, which together with those ceded by the Physiology Department made possible the provision of accommodation for Biochemistry in 1922, were restored to their original purpose during this session. This constitutes the small but welcome beginning of the more substantial extension of pharmacological activity in the College in 1959. The largest of the restored laboratories has been occupied as the only approach to the old animal house, while the new animal house for the Physiology and Pharmacology Departments, has been, at long last, under construction.

Of special interest among new acquisitions in the Library has been the first considerable addition to the Brougham Collection of letters and papers. These consist of twenty-seven manuscript volumes of the diary of Lady Brougham from 1816 to 1863, which have been in the possession of the Brougham family since the time of Marianne, Lady Malet, who was the daughter of Lady Brougham and the step-daughter of Lord Brougham. These manuscripts have been obtained through the good offices of Sir Bernard Waley-Cohen and Colonel Sir Edward Malet, Bt.

Among those who took up new appointments at the College at the beginning of the session were: Professor D. Lewis, who came from the John Innes Horticultural Institution to the Quain Chair of Botany, Dr R. E. D. Bishop from Cambridge to the Kennedy Chair of Mechanical Engineering, Dr E. H. Kossmann from the University of Leiden to a Readership in Dutch History and Institutions, and Dr G. J. Webber to a Readership in English Law.

At the end of the session the Department of Mathematics suffered a loss, which was shared by the College as a whole, by Professor Davenport's resignation of the Astor Chair of Mathematics on his appointment to the Rouse Ball Chair of Mathematics in the University of Cambridge. Professor Davenport came from the University College of North Wales to University College in 1945 as Astor Professor and became head of the Department of Mathematics in 1950. Students have known him as a gifted teacher. The long list of original papers published from the Department during recent years is a testimony both to the encouragement that

Professor Davenport has given to research and to his own distinction as a mathematician. In 1954 Professor Davenport was largely responsible for the founding of a new journal *Mathematika*, which has now a substantial international circulation; he has been one of the editors since its inception.

The retirement of Mr J. P. Mullen, Senior Lecturer in Chemical Engineering, has taken a familiar figure from the ranks of the non-professorial staff, and a gifted teacher from the staff of the Department of Chemical Engineering, of which he had been a member since 1928.

Mr Kenneth Garside, the Deputy Librarian, left at the end of the session to take up his new duties as Librarian of King's College, London. He had been Deputy Librarian of the College since 1946 and had taken a notable part in the post-war reconstruction of the Library.

The Friends of University College continue to give valuable gifts to the College. During the session a gift of £600 enabled the Students' Union to include in their new accommodation at 25 Gordon Street modifications which had not been covered by capital grants. In addition, the Friends provided some essential equipment, including two pianos. Further sums were allocated to the Union for the provision of gates and hedges at the entrance to their athletic ground at Shenley, and to the College to enable the collection of prints and pictures to be mounted and boxed.

The College reverted, as from 1 August 1958, to the practice of running the Refectory under the management of its own Steward, after employing a firm of contractors for the past nine years.

Among social events held at the College during the session was the second of the series of Receptions for former students of the College which took place on 28 February 1958. At the invitation of the Provost and the President of the Association of Friends of the College, about 150 students who entered the College during the period 1934–38 were present, together with a representative number of past and present members of the academic staff who had known the students of that period. It was an interesting reunion for many who had lost touch with the College and their student contemporaries during the intervening years.

The Assembly of Faculties in 1958, at which the Special Visitor was the Rt Hon. Lord Denning, attracted the largest audience for many years.

COHEN, *Chairman*
IFOR EVANS, *Provost*

SUPPLEMENT

OBITUARY

We record with deep regret the death of the following Fellows of the College: Sir Alexander Gibb, founder and senior member of the firm of Sir Alexander Gibb and Partners, Consulting and Civil Engineers; Dr Ernest Jones, Honorary President of the International Association of Psycho-Analysis; Miss Dora E. Limebeer, sometime Headmistress of Broughton High School; James Mould, Q.C., Bencher of Gray's Inn; Sir John Parsons, Consulting Ophthalmic Surgeon, University College Hospital and the Royal London Ophthalmic Hospital; Mr Clifford White, Consulting Obstetrical Surgeon, University College Hospital; Professor R. W. Whytlaw-Gray, a former member of the staff of the Chemistry Department of the College; and Mr Gwynne Williams, Surgeon and formerly Dean of University College Hospital Medical School.

Among other former members of the staff of the College whose death occurred in the course of the year were, Emeritus Professor Max Cary, Professor of Ancient History from 1937 to 1946, a scholar of immensely productive energy who first came to the History Department in 1908; E. M. Cutting, who gave devoted service to the Botany Department as a member of its teaching staff from 1909 to 1946; Professor R. W. Lee, Professor of Roman Dutch Law from 1906 to 1915; J. Wilkie, who had given thirty-eight years' service to the Slade School of Fine Art as a part-time member of its teaching staff; and A. H. Taylor, Superintendent of Buildings from 1937 to 1948, who held this arduous post during the difficult years of the war when the College buildings suffered much damage from enemy action.

Of other former students of the College who died, mention should perhaps be made of the following: Air Vice-Marshal W. E. Barnes, who had a distinguished medical career during which he held appointment as Deputy Director-General of R.A.F. Medical Services, Principal Medical Officer of the Home Command, and Honorary Surgeon to King George VI and to the Queen; Chief Ladipo Solanke of Nigeria, who founded the West African Students' Union in London; and S. H. Wood, formerly Principal Assistant Secretary at the Ministry of Education, who was a prominent student of the College in the early years of the century, becoming, while still a postgraduate student, the first Warden of University College Hall, Ealing—the College's first hall of residence for men students.

The 1958 New Year Honours included the conferment of the G.C.V.O. on Sir Stewart Duke-Elder, Fellow of the College; Knighthoods on Professor C. K. Ingold, Head of the Chemistry Department, and Dr Julian S. Huxley, Honorary Research Associate in the Department of Zoology; the order of C.B. on F. C. Francis, Lecturer in Bibliography in the School of Librarianship and Archives; the order of C.M.G. on V. G. Matthews and D. M. H. Riches, former students in the Faculty of Arts; and the order of C.B.E. on Oliver H. S. Messel, Fellow of the College, G. C. Allen, Professor of Political Economy, and P. B. Medawar, Professor of Zoology and Comparative Anatomy, and on Dr C. H. Johnson and W. C. C. Rose, former students in the Faculty of Science.

In the Queen's Birthday Honours for 1958 the following were created Knights Bachelor: D. L. Evans, a member of the School of Librarianship and Archives Committee and formerly a Part-time Lecturer in the School; J. N. Summerson, a former student in the Bartlett School of Architecture, and R. W. Taylor, who completed a Degree course in Engineering at the College at the close of the first World War. The order of C.M.G. was conferred on Dr C. A. Hart, Fellow of the College, and the C.V.O. on C. B. Oldman, also a member of the School of Librarianship and Archives Committee and a former student of that School.

R. G. Turnbull, a former Science student, was created K.C.M.G. on his appointment as Governor and Commander-in-Chief of Tanganyika, while other notable overseas appointments obtained by former students included those of J. A. L. Wiseham as Chief Justice in the Gambia and Dr J. J. Cremona as Attorney-General in Malta.

Of the many important appointments and elections obtained by past and present members of the College, mention can be made of only a few.

In the British Academy, Professor James R. Sutherland was elected as one of the two Vice-Presidents for the current year and Professor R. Wittkower as a Fellow. Professor R. S. Nyholm and M. Abercrombie became Fellows of the Royal Society, Professor D. McKie a Fellow of the Royal Society of Edinburgh, and Professor Sir Lindor Brown a Fellow of the Royal College of Physicians.

Professor H. Davenport was elected President of the London Mathematical Society, and Professor R. Irwin, President of the Library Association.

Several members of the professorial staff of the College were honoured by election to membership of foreign academies. Professor Sir Christopher Ingold and Professor J. Z. Young were elected as Foreign Honorary Members of the American Academy of Arts and Sciences; Professor P. B. Medawar as an Honorary Life Member of the New York Academy of Sciences; Professor T. B. L. Webster as a member of the Norwegian Academy of Science and Letters; and Professor H. C. Darby an honorary member of the Royal Geographical Society of the Netherlands. Professor Sir Christopher Ingold was also elected an Honorary Fellow of the Weizmann Institute in Israel for the leading part he had taken in creating the theoretical structure which transformed organic chemistry from an empirical into an exact science.

At the Foundation Day celebrations of the University of London, Queen Elizabeth, the Queen Mother, conferred the honorary degree of LL.D. on Professor H. Hale Bellot and Professor Sir Charles Lovatt Evans. Others upon whom honorary degrees were conferred during the year were Dr Morris Ginsberg, who received the honorary degree of LL.D. of the University of Nottingham; Sir Julian Huxley, the D.Litt. of the University of Birmingham; Professor Sir Christopher Ingold, the D.Sc. of the University of Oxford and also of McMaster University, Hamilton, Canada; Emeritus Professor Daniel Jones, the LL.D. of the University of Edinburgh; Professor L. S. Penrose, the D.Sc. of McGill University; Professor T. F. T. Plucknett, the LL.D. of the University of Glasgow; and Professor T. B. L. Webster, the Litt.D. of the University of Dublin.

The following were appointed to Research Fellowships: Dr T. Barnard as a Leverhulme Research Fellow, A. Brown as Charles Henry Foyle Fellow at the Shakespeare Institute, Stratford-upon-Avon; Dr Phoebe M. Cotes and Dr J. G. Nicholls as Junior Beit Memorial Fellows; and R. J. Ladd as a Wellcome Research Fellow. Dr A. P. Mathias was awarded a Rockefeller Fellowship, P. C. Sugar a Commonwealth Fund Fellowship and W. A. Smeaton a Research Fellowship given by the Centre National de la Recherche Scientifique, Paris, and tenable at the Institut d'Histoire des Sciences at the Sorbonne.

Among the interesting awards obtained were the Sir Banister Fletcher Prize awarded to H. M. Colvin, formerly of the History Department, for his *Biographical Dictionary of English Architects (1660–1840)*, adjudged the most deserving book on architecture published in Britain during the past two years; the Gold Medal of

the Tylers and Bricklayers' Company to Professor H. O. Corfiato for the designing of the Church of Notre Dame de France in London; the Thruston Medal, the triennial award given by Gonville and Caius College, Cambridge, for original research in Physiology, Pathology and Practical Medicine, which was won by Dr M. de B. Daly; the New York University Medal presented to Sir Harold Himsworth, Fellow of the College, and also to Sir Noel Hall, formerly Professor of Political Economy at the College; a half share of the Cromer Greek Prize awarded by the British Academy to E. W. Handley; the Murchison Medal of the Geological Society to Dr R. G. S. Hudson; the Davy Medal of the Royal Society to Professor Dame Kathleen Lonsdale; a Fields Medal, presented at the International Congress of Mathematicians, to Dr K. F. Roth for the solution of a long outstanding problem in the theory of numbers; the Linnean gold medal for 1958 to Sir Gavin de Beer, formerly Professor of Embryology, and a silver Darwin-Wallace commemorative medal, awarded by the Linnean Society of London in recognition of outstanding contributions to the knowledge of evolution, to the following past and present members of the College—Sir Ronald Fisher, Professor J. B. S. Haldane, Sir Julian Huxley and Emeritus Professor D. M. S. Watson.

The Minister of Education appointed Professor Sir William Coldstream as Chairman of the new National Advisory Council on Art Education, and Professor H. C. Darby was appointed a member of the National Parks Commission by the Minister of Housing and Local Government. Sir Charles Goodeve, Fellow of the College, was elected Master of the Salters' Company. Legal appointments obtained by former students included those of I. H. Jacob as a Master of the Queen's Bench Division and H. V. Lloyd-Jones as a Master of the Bench of the Inner Temple. William Roberts, who studied art at the Slade School, was elected an Associate of the Royal Academy.

The following were appointed to University Chairs: Dr M. de B. Daly to the Chair of Physiology at St. Bartholomew's Hospital Medical School, Professor R. E. Dickinson as Professor of Geography in the University of Leeds, Dr J. Pemberton to the Chair of Social and Preventive Medicine in the University of Belfast, Dr C. R. Quirk to the newly created Chair of English Language in the University of Durham (Durham Division), Professor T. J. B. Spencer as Professor of English Language and Literature in the University of Birmingham, and Dr L. Thorpe as Professor of French in the University of Nottingham. Dr A.

Wassermann was nominated Professor Extraordinary (without duties) by the West German Government.

Within the College, the title of Professor of Experimental Phonetics was conferred by the University of London on Dr D. B. Fry, and the title of Reader on the following: Dr A. Armitage (History and Philosophy of Science), Dr C. A. Bunton (Chemistry), D. J. Furley (Greek and Latin), Dr C. A. B. Smith (Genetical Statistics), Dr V. P. Underwood (French), Dr A. Wassermann (Chemistry), and R. J. Wilkins (Civil Engineering). Dr H. O. Schild was transferred to the newly-established Readership in Pharmacology.

New Faculty appointments were: Professor R. Powell as Dean and Professor D. Lloyd as Vice-Dean of the Faculty of Laws; Professor H. Davenport as Dean and Professor E. D. Hughes as Vice-Dean of the Faculty of Science; and Professor Sir Lindor Brown as Vice-Dean of the Faculty of Medical Sciences.

STUDENT HEALTH ASSOCIATION

The Student Health Association has maintained its usual services although, as in each of the preceding years of its existence, the demand on them has increased. Attendances at the Health Centre for all purposes were 9,085, compared with 7,529 last year.

The Research Unit, supported by Medical Research Council funds, has continued its investigation into the problem of student failure and of delay in graduation. It has concentrated particularly on a retrospective survey of the 1953 entry, for which all data have now been collected, and on a pilot prospective study, based on interviews with a volunteer sample of the 1956 entry, which it is hoped will yield valuable methodological information. The results of preliminary surveys of student performance carried out under the direction of Dr Nicolas Malleson, the Physician-in-Charge, have been published in the course of the year.

In December 1957, with the support of the Nuffield Foundation, a small conference on research into student performance, over which Sir John Stopford presided, was held at the College. This proved a most valuable meeting in that it was the first conference ever held specifically for workers in this field.

OLD STUDENTS' ASSOCIATION

At the Annual General Meeting on 23 October 1957, Dr Edith Batho, Principal of Royal Holloway College, was elected President

of the Association for the session 1957–58, and S. W. C. Phillips was nominated for appointment to the College Committee.

For the second year in succession the College paid one annual subscription on behalf of all students who completed in July 1957 their course of study for a first degree or diploma. It is perhaps too early to say what effect this generous action on the part of the College is having on long-term membership. All that can be said at the moment is that renewals of subscriptions are not as numerous as had been hoped, although recent graduates are playing their full part in the normal social activities of the Association.

The social programme for the session 1957–58 has been full, varied and, on the whole, very well supported. On the evening of the Annual General Meeting the Film Society gave an interesting show of films recently made in the College. The dinner to present students in November was followed by a lecture-demonstration on African Drum Rhythms by Father A. M. Jones of the School of Oriental and African Studies. Talks after other informal dinners were given by Sir Godfrey Ince on 'Ministers I have known' and by Professor H. C. Darby on his recent trip to New Zealand. All were well attended and greatly enjoyed.

The annual debate with the Union was held on 4 February on the motion 'That in the opinion of this house government by one man is preferable to government by committee'. The motion was proposed by Sir Frederic Hooper, seconded by George Odey, and carried by a narrow margin after a lively debate.

The social programme also included a buffet supper at the Royal Academy followed by a private view of the winter exhibition, 'The Age of Louis XIV', with a talk on the exhibition by Michael Kitson of the Courtauld Institute of Art. To conclude the year, there was a trip by barge along the Regent's canal from Edgware Road to Greenford. This proved to be so popular that a second trip had to be arranged, which, though shorter, was equally successful.

THE STUDENTS' UNION

The year 1957–58 has been in no way unusual. At the Assembly of Faculties a display of Union activities was arranged on a more ambitious scale than in previous years. The Freshers' Conference was attended by more students; and, by a generous grant from the Student Purposes Fund, which made it possible for the charge to Freshers to be reduced, more of them were enabled to come to the inaugural dinners held on three days running. Entertainments Committee have run more regular weekly hops, and Jazz Society more regular jive sessions. The Handbook and Diary were both published as usual, and the Diary sold out before the end of the first term of the session. *Pi* appeared regularly, and its latest issue carried eight pages for the first time in the history of the paper. Only *New Phineas* among the Union's traditional activities appeared to be in a state of decline, which was partly due to lack of material of sufficiently high standard and partly to lack of editors.

In sport, we lost the Commemoration Games but won the cup back at the Foundation Games by 15 points to 9. At Shenley, the long-awaited new tea-room was officially opened on the day of the Foundation Games by Sir Frederick James, and has been in use regularly since then. The Gym Club has now become defunct owing to lack of interest, and the Lacrosse Club has had difficulty in finding enough students to form a team. Otherwise all C.A.B. Clubs have flourished.

Dramatic Society reached the finals of the N.U.S. Drama Festival with a production of Wilder's *The Skin of our Teeth.* A new play, *Far Away Moon*, was given its first performance in November, and was acted again in the University of London Dramatic Festival, where it was highly praised. *The Miser* and *Lady Precious Stream* were produced in March and June respectively. Music Society's production of Lortzing's *Der Wildschutz* reached a high standard, as did their Foundation Concert performance of the Brahms *Requiem Mass.* The Madrigal Group and the Choir have both increased their membership, but their audiences have been disappointing. Jazz Society came bottom in the All-University Festival of Jazz, but organised a highly successful River Boat Shuffle on the Thames last summer which at least established its reputation in College. Debating Society had another traditional year, hampered more than ever by lack of suitable accommodation.

A Union Forum was held in March on 'The H-Bomb: Which Way Now?', and a full meeting heard speakers who supported the Government's Defence policy and the policy of the Campaign for Nuclear Disarmament. On such occasions, the Union expresses no official view but seeks to provide a platform for topics of wide and immediate interest. Following the Forum a Committee for Nuclear Disarmament was formed and is now a student society affiliated to the Union.

A very great deal of time and detailed planning has been put into the work of moving the Union to 25 Gordon Street. A committee of students has chosen all the furniture and designed the colour schemes for the three Union floors; and, although even now the space to be provided will be inadequate for all the Union's needs, the improvement on the old accommodation is being eagerly awaited despite some misgivings because of the distance of the new premises from the centre of the College.

Strong delegations to N.U.S. Councils have secured support for U.C.L. motions; and, with our ex-President Peter Pryor as their current Vice-President, and our ex-President Robert Watson as their Vice-President elect, the N.U.S. continues to be aware of U.C.L. Union. Three members of this Union were sent to take part in lobbying M.P.'s at the House of Commons on the issue of student grants.

The President has attended all meetings of the Presidents' Council of the University of London Union, thus restoring the full relationship with ULU which was voted last year. The Union was officially represented at the opening of the new ULU building, and the President had the honour of being presented to the Queen Mother on that occasion.

A dull, but essential, task undertaken during the year has been the complete revision of the Constitution and Standing Orders, which it is hoped now reflect the current practice of the Union in all aspects of its varied activity.

A dinner was organised by the President and Woman Vice-President in March, to which were invited all Past Presidents and some Vice-Presidents of the Union Society, Women's Union Society, and joint Union, whose addresses could be traced; twenty-six attended.

JEREMY HORNSBY
President, 1958–59

THE BARTLETT SCHOOL OF ARCHITECTURE

During the academic year 1957–58 there were 177 full-time students in the School: 51 students were taking the Degree course, 104 the Diploma course, and 22 the Certificate course in Decoration. There were also 2 students reading for the M.A. Degree and 2 members of the staff reading for the Ph.D. Degree. In addition, 2 students attended the part-time evening course in the Preservation and Restoration of Historical Buildings.

As usual, the Bartlett School participated in the annual competition between French and British Schools on a common design subject. T. M. Sutcliffe was the winner of the competition. Another fourth-year student, H. A. W. Simons, has been awarded a French Government Scholarship to enable him to study for a year at the Ecole Nationale Supérieure des Beaux-Arts in Paris. The Sir Banister Fletcher Prize, awarded for the first time, is given to the student who obtains the highest marks in the final examinations for the Degree or Diploma. J. W. C. Darbourne was the first recipient of the prize.

An interesting feature of the exhibition of students' work arranged in connection with the Assembly of Faculties was the inclusion of a selection of the recent work of a number of past students of the School, some of whom have achieved considerable distinction in the profession.

Two fourth-year students went to Moscow during the summer vacation to attend a conference organised by the International Union of Architects. An exhibition was arranged in connection with the conference to which the School sent two sets of advanced students' designs.

It is with regret that the School records the resignation of T. F. A. Manning at the end of the session from his post as Fifth Year Master in the School, owing to his many commitments in his private practice.

The Division of Decoration has had another successful year. Early in the session an exhibition of the work of students of the Division was held in the North Cloisters of the College. The exhibition was open to members of the public for two days and attracted many visitors.

The School wishes to record its appreciation of the valuable assistance given by the Slade School of Fine Art, the Department of Civil and Municipal Engineering, and the Departments of Mathematics and Archaeology. Many visiting lecturers gave short courses and lectures on various ancillary architectural subjects.

Students in the first and second years attended practical building demonstrations at the Building Crafts Training School at Great Titchfield Street.

THE SLADE SCHOOL OF FINE ART

During the session 201 full-time students (106 men and 95 women) attended the School. Of these 163 followed the course leading to the Diploma in Fine Art, 20 were post-Diploma students, and the rest were following courses in the School for one year only. There was one Fulbright Scholar, while other students from overseas came from Australia, Canada, Chile, China, Denmark, Eire, France, Holland, Hong Kong, Hungary, India, New Zealand, Pakistan, Portugal, Rhodesia, Sierra Leone, Singapore, South Africa, the Sudan, Thailand, and the United States of America.

At the annual entrance examination held in January, 304 candidates applied for places in October 1958. Eighty candidates were accepted.

During the session the following artists, apart from those on the regular staff, taught periodically in the School: Edward Ardizzone, Rodney Burn, Lucian Freud, and L. S. Lowry. In October, Keith Vaughan and Philip Sutton joined the staff of the School as Assistants, and Richard Beer was appointed Demonstrator in Etching and Engraving.

In the first and second terms of the session Professor Gombrich gave a course of lectures on the Art of the Renaissance and conducted a Seminar on Theories of Abstract Art. In the autumn term W. S. Hayter lectured on 'Methods of Engraving' and in the summer term the following lectures were given: 'Les Fauves' by Ronald Davey, 'Modern Popular Art' by Dr Ettlinger, 'Matisse as a Teacher' by Andrew Forge, 'Experiment in Art' by Professor Gombrich, 'Very Like a Whale' by Charles Mitchell, 'The Constructivist Decade and the work of Moholy-Nagy' by Mrs Sibyl Moholy-Nagy, and 'The Limits of Art' by Richard Wollheim.

During the year Nicolas Georgiadis and Peter Snow assisted in the teaching of Stage Design and John Collins gave instruction in

Scene Painting, taking groups of students at regular intervals to work on the paint-frames of Sadlers Wells and the Old Vic Theatres. Miss Yolanda Sonnabend, a present student of the School, designed settings and costumes for a new ballet, *A Blue Rose*, which was performed for the first time in December 1957 at the Royal Opera House.

Among present students who gained awards during the session were: B. J. Taylor, the Rome Prize for Sculpture; John England and Miss Marjorie Yemm, Abbey Minor Scholarships in Painting; John Foster, a Norwegian Government Scholarship; Miss Charlotte Jennings, an Arts Council prize for Painting; Mrs Carol Burns, the Postgraduate Studentship in Fine Art; and Miss Yolanda Sonnabend, a Boise Travelling Scholarship.

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APPENDIX I

COLLEGE COMMITTEE

	*Attendances**
Chairman: The Right Hon. Lord Cohen‡	7–8
Vice-Chairman and Treasurer: Sir Frederick James, O.B.E.‡	8–8
Professor F. Brailsford, B.SC.(ENG.), PH.D., M.I.E.E.§	2–4
John Brown, C.B.E., M.C., M.A., B.SC., LL.D.¶	2–4
Mrs Irene Chaplin, B.A., J.P.	3–8
The Right Hon. The Earl of Cromer	2–8
Professor H. Davenport, M.A., SC.D., F.R.S.¶	4–4
P. Dunsheath, C.B.E., M.A., D.SC.(ENG.), D.ENG., M.I.E.E.	3–8
Sir Ifor Evans, D.LIT.† *Provost*	8–8
David Heron, M.A., D.SC.†	8–8
Professor A. V. Hill, C.H., O.B.E., SC.D., LL.D., D.SC., M.D., F.R.S.‡	5–8
Professor B. Katz, M.D., PH.D., D.SC., F.R.S.	8–8
A. Maccoll, M.SC., PH.D.	6–8
L. H. Macklin, O.B.E., M.A.	6–8
R. D. McLellan, PH.D.	8–8
E. K. Martin, M.B., M.S., F.R.C.S.†	7–8
T. A. L. Paton, B.SC., M.I.C.E., M.AM.SOC.C.E.†	6–8
Professor E. S. Pearson, C.B.E., M.A., D.SC.†§	3–4
S. W. C. Phillips, C.B., B.A.	3–8
Professor R. Powell, D.C.L.	8–8
Mrs Hazel Rose, LL.B.§	0–4
F. J. Stephens, M.A.‡	2–8
The Right Hon. Lord Strang, G.C.B., G.C.M.G., M.B.E., B.A., LL.D.†	6–8
Professor E. H. Thompson, O.B.E., B.A., F.R.I.C.S.¶	2–4
Alderman Sir Bernard Waley-Cohen, M.A.	4–8
G. E. Walker, O.B.E., B.A.	5–8
Miss Phyllis Woodham-Smith, M.A.	4–8

* The two figures indicate respectively the number of times that the member attended, and the number of times that he was summoned to a meeting of the Committee during the year 1 October 1957 to 30 September 1958. ‡ Hon. Fellow of the College. † Fellow of the College. § Membership terminated before 30 September 1958. ¶ Appointed after 1 October 1957.

APPENDIX II

PROFESSORIAL BOARD

Chairman: Sir Ifor Evans, D.LIT., Provost†

C. W. Allen, D.SC., Perren Professor of Astronomy

G. C. Allen, C.B.E., M.COM., PH.D., Professor of Political Economy

H. C. Allen, M.C., M.A., Commonwealth Fund Professor of American History

G. F. Arnold, B.A., Lecturer in Phonetics

A. J. Ayer, M.A., F.B.A., Grote Professor of Philosophy of Mind and Logic

Ernest Baldwin, PH.D., Professor of Biochemistry

H. E. M. Barlow, B.SC.(ENG.), PH.D., M.I.E.E., M.I.MECH.E., Pender Professor of Electrical Engineering†

R. E. D. Bishop, M.A., M.S., PH.D., D.SC.(ENG.), A.M.I.MECH.E., A.F.R.AE.S., Kennedy Professor of Mechanical Engineering

F. Brailsford, B.SC.(ENG.), PH.D., M.I.E.E., Professor of Electrical Engineering

Sir Lindor Brown, C.B.E., M.SC., M.B., CH.B., F.R.C.P., F.R.S., Jodrell Professor of Physiology

A. B. C. Cobban, M.A., PH.D., Professor of French History

Sir William Coldstream, C.B.E., Slade Professor of Fine Art†

H. J. Collins, M.C., M.SC., M.I.C.E., M.I.MECH.E., P.P.I.STRUCT.E., A.M.AM.SOC.C.E., Chadwick Professor of Civil Engineering

H. O. Corfiato, S.A.D.G., F.S.A., F.R.I.B.A., HON.F.I.B.D., Professor of Architecture

D. P. Craig, D.SC., Professor of Chemistry

H. C. Darby, O.B.E., M.A., PH.D., Professor of Geography

H. Davenport, M.A., SC.D., F.R.S., Astor Professor of Mathematics

Florence N. David, D.SC., Reader in Probability and Statistics

W. R. Dean, M.A., Goldsmid Professor of Mathematics

M. B. Donald, M.SC., F.R.I.C., M.I.CHEM.E., A.R.C.S., Ramsay Memorial Professor of Chemical Engineering

W. B. Emery, M.B.E., M.A., F.S.A., Edwards Professor of Egyptology

R. C. FitzGerald, LL.B., F.R.S.A., Professor of English Law

Daryll Forde, PH.D., Professor of Anthropology†

L. W. Forster, M.A., DR.PHIL., Professor of German

D. B. Fry, PH.D., Reader in Experimental Phonetics

A. H. Gerrard, Professor of Sculpture

R. E. Gibbs, D.SC., F.INST.P., Reader in Physics and Tutor to Science Students

E. H. J. Gombrich, PH.D., M.A., Durning–Lawrence Professor of the History of Art

J. A. B. Gray, M.A., M.B., B.CHIR., Reader in Physiology

H. Grüneberg, PH.D., M.D., D.SC., F.R.S., Professor of Genetics

Sir William Holford, M.A., F.R.I.B.A., M.T.P.I., F.I.L.A., Professor of Town Planning

† Fellow of the College.

S. E. Hollingworth, M.A., D.SC., Yates-Goldsmid Professor of Geology

E. D. Hughes, D.SC., PH.D., F.R.I.C., F.R.S., Professor of Chemistry†

R. A. Humphreys, O.B.E., M.A., PH.D., Professor of Latin American History

Sir Christopher Ingold, D.SC., F.R.S., Professor of Chemistry

Raymond Irwin, M.A., F.L.A., Professor of Library Studies and Director of the School of Librarianship & Archives

B. Katz, M.D., PH.D., D.SC., F.R.S., Professor of Biophysics

G. W. Keeton, M.A., LL.D., Professor of English Law

L. Margaret Kerly, M.A., PH.D., Reader in Biochemistry

D. Lewis, D.SC., F.R.S., Quain Professor of Botany

D. Lloyd, M.A., LL.D., Quain Professor of Jurisprudence

Dame Kathleen Lonsdale, D.B.E., D.SC., F.R.S., Professor of Chemistry†

A. Maccoll, M.SC., PH.D., Reader in Chemistry

D. McKie, D.SC., PH.D., F.R.I.C., F.R.S.E., Professor of History and Philosophy of Science†

R. D. McLellan, PH.D., Senior Tutor and Senior Lecturer in Greek and Latin

H. S. W. Massey, D.SC., PH.D., F.R.S., Quain Professor of Physics

P. B. Medawar, C.B.E., M.A., D.SC., F.R.S., Jodrell Professor of Zoology and Comparative Anatomy

A. D. Momigliano, M.A., D.LITT., F.B.A., Professor of Ancient History

R. S. Nyholm, D.SC., F.R.I.C., F.R.S., Professor of Chemistry

E. S. Pearson, C.B.E., M.A., D.SC., Professor of Statistics†

L. S. Penrose, M.A., M.D., D.SC., M.R.C.S., L.R.C.P., F.R.S., Galton Professor of Eugenics

R. Powell, D.C.L., Professor of Roman Law

Constance M. Rigby, M.A., PH.D., Lecturer in Mathematics

C. M. Robertson, M.A., Yates Professor of Classical Art and Archaeology

J. W. Scott, B.A., A.L.A., Librarian

O. Skutsch, DR.PHIL., Professor of Latin

A. H. Smith, O.B.E., R.N.O., R.F., PH.D., D.LIT., F.S.A., Quain Professor of English Language and Literature

S. Stein, PH.D., Goldsmid Senior Lecturer in Hebrew

James R. Sutherland, M.A., B.LITT., LL.D., F.B.A., Lord Northcliffe Professor of Modern English Literature

E. H. Thompson, O.B.E., B.A., F.R.I.C.S., Professor of Surveying & Photogrammetry

M. A. Thomson, M.A., D.PHIL., Astor Professor of English History

E. G. Turner, M.A., F.B.A., Professor of Papyrology

T. B. L. Webster, M.A., LITT.D., F.S.A., HON.R.A., Professor of Greek

R. Weiss, B.A., Professor of Italian

G. P. Wells, M.A., SC.D., F.R.S., Professor of Zoology

J. W. Whitfield, M.A., Reader in Psychology

† Fellow of the College.

D. R. Wilkie, M.D., M.B., B.S., M.R.C.P., Reader in Experimental Physiology

F. R. Winton, M.A., M.D., D.SC., Professor of Pharmacology

B. Woledge, M.A., D. DE L'UNIV., Fielden Professor of French Language and Literature

J. Z. Young, M.A., D.SC., F.R.S., Professor of Anatomy

APPENDIX III

HONORARY FELLOW AND FELLOWS

The following elections were made in 1958:

HONORARY FELLOW

Mr Frederick James Stephens, a Managing Director of Shell Transport and Trading Company Ltd

FELLOWS

Professor Stanley Thomas Bindoff, Professor of History, Queen Mary College, London

Dr Ernest Jones, Honorary President of the International Association of Psycho-Analysis

Professor Arthur Austin Miller, Professor of Geography, University of Reading

Professor James Louis Montrose, Professor of Law and Dean of the Faculty of Law, The Queen's University, Belfast

Mr Kenneth Page Oakley, Senior Principal Scientific Officer, British Museum (Natural History)

Dr Mary Woodall, Director, Birmingham Museum and Art Gallery

APPENDIX IV

RECOGNITION OF TEACHERS

The following members of the academic staff have been granted, during the academic year 1957–58, Full Recognition as Teachers of the University in the subjects and in the University Faculties indicated:

Boycott, B. B.	Zoology	Science
Boyd, R. L. F.	Physics	Science
Capildeo, R.	Mathematics	Arts and Science
Gimson, A. C.	Phonetics	Arts
Gimson, C. E.	Electrical Engineering	Engineering
Hamlyn, L. H.	Anatomy	Medicine and Science
Hasted, J. B.	Physics	Science
Kalmus, H.	Biology	Science
Korah, Valentine	Law	Laws
Maynard Smith, J.	Zoology	Science
Michael, D. H.	Mathematics	Arts and Science
O'Connor, J. D.	Phonetics	Arts
Ottaway, J. H.	Biochemistry	Medicine and Science
Pascoe, J. E.	Physiology	Medicine and Science
Payne, D. J.	Law	Laws
Pole, J. R.	History	Arts
Power, E. A.	Mathematics	Arts and Science
Prevezer, S.	Law	Laws
Quilliam, T. A.	Anatomy	Medicine and Science
Robinson, Pamela Lamplugh	Zoology	Science
Seaton, M. J.	Physics	Science
Watling, J. L.	Philosophy	Arts
Watson, G. L.	Mathematics	Arts and Science
Whitear, Mary	Zoology	Science
Willis, J. A.	Classics	Arts

APPENDIX V

PRINCIPAL CHANGES IN THE ACADEMIC STAFF

FACULTY OF ARTS

ANTHROPOLOGY

Appointments: J. P. Garlick, B.A. (Assistant Lecturer), formerly research worker in Department.

Rosemary L. Harris, M.A. (Research Assistant), formerly postgraduate student in Department.

ARCHITECTURE

Resignation: T. F. A. Manning, B.A., A.R.I.B.A. (Part-time Lecturer), in private practice.

ENGLISH LANGUAGE AND LITERATURE

Appointments: A. G. R. Petti, M.A. (Quain Student), formerly Assistant in the Department.

D. K. C. Todd, B.A. (Research Assistant), formerly student in Department.

Resignation: Marion G. Jones, M.A. (Assistant Lecturer), on appointment as Temporary Assistant Lecturer at University of Exeter.

FINE ARTS

Appointments: K. Vaughan (Part-time Assistant), from the Central School of Art.

J. Collins (Part-time Assistant).

P. Sutton (Part-time Assistant), previously Visiting Demonstrator.

Resignations: R. A. Davey (Part-time Assistant), to appointment at the University of Durham.

C. R. O. Medley (Part-time Assistant), to appointment at the Camberwell School of Art.

FRENCH

Resignation: H. P. Clive, PH.D. (Research Assistant).

GEOGRAPHY

Appointment: D. Thomas, M.A. (Assistant Lecturer), from Department of Animal Husbandry, University College of Wales, Aberystwyth.

Resignation: R. A. Welldon Finn, M.A. (Research Assistant).

GERMAN

Appointment: G. P. G. Butler, M.A. (Assistant Lecturer), from Bedford College.

HISTORY

Appointment: E. H. Kossman, LITT.D.(LEIDEN) (Reader in Dutch History and Institutions), from University of Leyden.

LIBRARIANSHIP AND ARCHIVES

Appointments: E. W. Denham, M.A. (Part-time Lecturer in Palaeography), from the Public Record Office.

J. R. Ede, M.A. (Part-time Lecturer in Archive Administration), from the Public Record Office.

Resignation: D. V. Arnold, B.SC., F.L.A. (Part-time Lecturer).

PHONETICS

Resignation: J. L. M. Trim, B.A. (Lecturer), to newly created Lectureship in Phonetics at the University of Cambridge.

POLITICAL ECONOMY

Appointment: J. Spraos, M.A. (Lecturer), formerly a Research Fellow at the University of Sheffield.

FACULTY OF LAWS

Appointment: G. J. Webber, LL.D. (Reader in English Law).

Resignation: J. S. Read, LL.B. (Assistant Lecturer), to Lectureship in African Law at School of Oriental and African Studies.

FACULTY OF SCIENCE

BOTANY

Appointments: D. Lewis, D.SC., F.R.S. (Quain Professor of Botany), from the John Innes Horticultural Instititution.
D. H. Morgan, B.SC. (Research Assistant), from the Metal Box Company Ltd.

CHEMISTRY

Appointment: J. Lewis, PH.D. (Lecturer), from Imperial College of Science and Technology.

Resignations: R. J. Gillespie, D.SC. (Lecturer), to Associate Professorship at McMaster University, Hamilton, Ontario.
S. E. Livingstone, PH.D. (Honorary Research Associate).

EUGENICS, BIOMETRY AND GENETICS

Resignation: Ursula Mittwoch, PH.D. (Assistant Lecturer), on appointment as a member of the external staff of the Medical Research Council to work in Galton Laboratory.

GEOLOGY

Appointment: A. J. Smith, PH.D. (Assistant Lecturer), from University College, Aberystwyth.

Resignation: R. Bradshaw, M.SC. (Lecturer), to an appointment at the University of Bristol.

MATHEMATICS

Resignation: H. Davenport, M.A., SC.D., F.R.S. (Astor Professor of Mathematics), to Rouse Ball Chair of Mathematics, University of Cambridge.

PHYSICS

Appointments: S. Zienau, PH.D. (Lecturer), formerly Honorary Research Assistant in Department.

R. A. Buckingham, PH.D. (Honorary Research Associate) and Director University of London Computer Unit; formerly Reader in the Department.
A. R. Edmonds, PH.D. (Honorary Research Associate), and Deputy Director, University of London Computer Unit.

Resignation: J. P. Astbury, PH.D. (Lecturer), to Lectureship at Imperial College of Science and Technology.

PSYCHOLOGY

Appointment: R. J. Audley, PH.D. (Lecturer), from the Medical Research Council.

STATISTICS

Resignation: P. G. Moore, PH.D., F.I.A. (Lecturer), to appointment with the National Coal Board.

FACULTY OF ENGINEERING

MECHANICAL ENGINEERING

Appointment: R. E. D. Bishop, M.A., M.S., PH.D., D.SC.(ENG.), A.M.I.MECH.E., A.F.R.AE.S. (Kennedy Professor of Mechanical Engineering), from University of Cambridge.

Retirement: Emeritus Professor B. J. Lloyd-Evans, M.SC.(ENG), PH.D., M.I.MECH.E. (Special Lecturer and formerly Kennedy Professor of Mechanical Engineering).

CHEMICAL ENGINEERING

Appointment: R. Chayen, B.SC., PH.D., D.I.C., A.R.I.C., A.R.C.S. (Lecturer), formerly Temporary Assistant Lecturer in Department.

Retirement: J. P. Mullen, M.ENG., A.M.I.CHEM.E. (Senior Lecturer).

FACULTY OF MEDICAL SCIENCES

ANATOMY AND EMBRYOLOGY

Appointments: Jill R. Parriss, B.A. (Research Assistant), from Homerton Training College, Cambridge.
Professor H. A. Skinner, M.B., F.R.C.S. (Honorary Research Associate), from the University of Western Ontario.

Resignations: J. E. Bridger, M.B., B.S., M.R.C.S., L.R.C.P. (Assistant Lecturer), to appointment as Surgical Registrar, St. Andrew's Hospital, Bow.
Ruby M. Collister, M.D., L.R.F.P.S. (Assistant Lecturer).
Minnie L. Johnson, B.SC., PH.D. (Honorary Research Associate).

BIOPHYSICS

Resignation: J. Del Castillo-Nicolau, M.D. (Lecturer), to appointment at the National Institute of Health, Bethesda, Maryland, U.S.A.

PHYSIOLOGY

Appointment: D. R. Inman, B.SC. (Sharpey Scholar), formerly research student in Department.

Resignation: P. G. Wright, B.SC. (Lecturer), to Lectureship at Makerere College, Uganda.

APPENDIX VI

PUBLIC LECTURES

ENDOWED LECTURES

COMMONWEALTH FUND LECTURES

Professor Norman A. Graebner, Illinois: 'The Revolution in American Politics, 1837–77' (eight lectures)

LORD NORTHCLIFFE LECTURES IN LITERATURE

Professor Jean Seznec, Oxford: 'The Emergence of Renan (1823–1848)' (four lectures)

NEWMARCH LECTURES IN ECONOMIC STATISTICS

Mr Colin Clark, Agricultural Economics Research Institute, Oxford: 'World Population' (four lectures)

SETON MEMORIAL LECTURE

Dr Beryl Smalley, Oxford: 'Franciscan Scholarship at Oxford in the Early Fourteenth Century'

SHEARMAN MEMORIAL LECTURES

Professor Paul Bernays, Federal Institute of Technology, Zürich: 'Recent Trends in the Foundations of Mathematics' (four lectures)

INAUGURAL LECTURES

Professor R. E. D. Bishop, Kennedy Professor of Mechanical Engineering: 'Applied Mechanics in Engineering'
Professor D. P. Craig, Professor of Chemistry: 'Theoretical Chemistry: Looking Before and After'
Professor Raymond Irwin, Professor of Library Studies: 'The Golden Chain: a Study in the History of Libraries'
Professor D. Lewis, Quain Professor of Botany: 'The Experimental Approach to Life'
Professor D. McKie, Professor of History and Philosophy of Science: 'Science and History'

LUNCH-HOUR LECTURES

Professor C. W. Allen: 'Astronomical Experiments have Begun'
Dr A. J. Arkell: 'The British Ennedi Expedition'
Mr R. Browning: 'Byzantine Schools and Schoolmasters'
Mr I. R. Christie: 'The Enigma of Charles James Fox'
Mr P. B. Downing: 'Freedom and Causation'
Miss Margaret S. Drower: 'The Women of Ancient Egypt'
Dr McD. Emslie: 'Samuel Pepys' Domestic Music'
Mr Andrew Forge: 'Van Gogh'
Dr L. Fowden: 'Plant Poisons'
Mr R. A. French: 'The Changing Landscape of the Soviet Union'
Mr D. J. Furley: 'The Origin of the Free-Will Problem'

Professor E. H. Gombrich: 'Caricature'
Dr G. Hall: 'Is "La Chanson de Roland" worth reading?'
Dr Hilda M. Hulme: 'Shakespeare of Stratford : some New Linguistic Findings'
Dr D. W. James: 'Wounds and Scars in Skin'
Dr W. Glyn Jones: 'Denmark Through Nineteenth-Century English Eyes'
Dr H. Kalmus: 'Evolution Observed'
Mr L. B. Keeble: 'Town Planning: What Does it Achieve?'
Mr J. H. Kells: 'Step-Mothers and Pirates in the Roman Schools of Rhetoric'
Dr J. F. M. Middleton: 'Witches and Sorcerers'
Mr F. Parkinson: 'Problems of European Integration'
Professor L. S. Penrose: 'Self-reproducing Objects'
Dr J. R. Pole: 'Law and Social Equality in the United States'
Dr L. S. Pressnell: 'What Future is there in Money?'
Professor C. M. Robertson: '"The Sack of Troy" or "Troy Taken": two approaches to a theme'
Dr J. D. Robertson: 'The Cell Membrane: what is it?'
Dr S. Stein: 'Hellenism in Jewish Palestine'
Dr L. W. Tancock: 'Mlle de Lespinasse'
Dr W. K. Taylor: 'Communication, Control and Memory Systems in Man and Machines'
Mr D. L. Turner: 'Popular Fiction in the Fourteenth Century'
Mr R. F. Vollans: 'The Research Student and the Public Library'
Professor R. Weiss: 'Savonarola and the Renaissance'
Professor G. P. Wells: 'The Evolution of Lugworms'
Dr J. S. Wilkie: 'Galen's Theory of the Nervous System, and its Persistent Influence'

LECTURES ARRANGED BY COLLEGE DEPARTMENTS

This list includes only those lectures given by visiting lecturers or by honorary members of the staff.

ANATOMY AND EMBRYOLOGY

Professor Jan Droogleever Fortuyn, Groningen: 'The Rhinencephalon with special reference to Fishes'
Professor Jerzy Konorski, The Nencki Institute of Experimental Biology, Poland: 'New Data concerning the Functions of the Prefrontal Areas in Animals'
Dr J. D. Robertson: 'The Molecular Biology of Cell Membranes'

BIOCHEMISTRY

Dr H. Harris, London Hospital Medical College: 'Human Biochemical Genetics' (three lectures)
Professor M. Heidelberger, Institute of Microbiology, Rutgers, U.S.A.: 'The Chemistry of Proteins and Carbohydrates in relation to Immunological Specificity'
Dr E. Lester Smith, Glaxo Laboratories: 'The Biochemical Functions of Vitamin B_{12}'
Dr F. H. C. Crick, Cambridge: 'The Nucleic Acids' (three lectures)
Dr J. D. Judah, University College Hospital Medical School: 'Oxidative Phosphorylation' (two lectures)

Dr B. A. Stone : 'The Biochemistry of Cellulose and Related Polysaccharides' (two lectures)

BIOPHYSICS

Dr C. A. G. Wiersma, California Institute of Technology: 'Comparative Physiology of Crustacean Neuro-muscular Systems', 'Integration in Single Units of the Crayfish Central Nervous System' (two lectures)

ENGLISH LANGUAGE AND LITERATURE

Professor Simonne R. T. O. d'Ardenne, Liège: 'The Green Count and "Sir Gawain, and the Green Knight" '

HEBREW

Professor N. H. Tur-Sinai, Jerusalem: 'The Revival of the Hebrew Language in Israel', 'Riddles in the Bible' (two lectures)

PHONETICS

Professor Daniel Jones: 'Phonemes: what they are and what they do'

PHYSIOLOGY

Dr B. Delisle Burns, McGill: 'Networks of Self-reexciting Neurones', 'The Responses of Neurones in the Cerebral Cortex to Polarization' (two lectures)

COMMUNICATION RESEARCH CENTRE LECTURES

Series of lectures on 'The Teaching of English':

Dr Randolph Quirk, Durham: 'English Language and the Structural Approach'
Mr J. F. Warburg: 'Style'
Mr J. L. M. Trim: 'Speech Education'
Mr W. H. Mittins, King's College, Newcastle-upon-Tyne: 'The Teaching of English in Schools'
Mr J. C. Catford, Edinburgh: 'The Teaching of English as a Foreign Language'
Mr B. C. Brookes: 'The Teaching of English to Scientists and Engineers'

APPENDIX VII

NUMBERS OF STUDENTS, SESSION 1957–58

	Under-graduates	*Post-graduates*	*Totals*
Faculty of Arts:			
(*a*) General	872 (296)	205 (74)	1,077 (370)
(*b*) Department of Political Economy ..	129 (2)	13 (2)	142 (4)
(*c*) Slade School of Fine Art	201 (15)	24 (5)	225 (20)
(*d*) Bartlett School of Architecture ..	181 (3)	4 (–)	185 (3)
(*e*) Department of Town Planning ..	126 (114)	30 (30)	156 (144)
(*f*) School of Librarianship and Archives	7 (7)	40 (4)	47 (11)
Faculty of Science	609 (8)	338 (84)	947 (92)
Faculty of Medical Sciences	190 (26)	2* (1)	192 (27)
Faculty of Engineering	201 (1)	76 (16)	277 (17)
Faculty of Laws	311 (49)	71 (26)	382 (75)
	2,827 (521)	803 (242)	3,630 (763)

* This figure excludes 36 full-time and 2 part-time postgraduate students working in Departments in the Faculty of Medical Sciences who were registered in the University Faculty of Science.

The figures in brackets indicate the number of part-time students which is included in the total under each head.

APPENDIX VIII

GEOGRAPHICAL DISTRIBUTION OF STUDENTS, SESSION 1957–58

	Under-graduates	*Post-graduates*	*Totals*
UNITED KINGDOM			
London	327	104	431
Home Counties (30-miles radius)	892	243	1,135
Remainder of United Kingdom	1,171	206	1,377
BRITISH COMMONWEALTH OF NATIONS			
Australia	6	15	21
Canada	6	17	23
Ghana	16	3	19
Hong Kong	17	2	19
India	32	51	83
Malaya	13	1	14
Nigeria	38	6	44
Pakistan	11	21	32
South Africa	10	13	23
18 Other Countries	53	21	74
OTHER PARTS OF THE WORLD			
Egypt	6	7	13
France	48	2	50
Germany	12	1	13
Greece	6	8	14
Israel	12	5	17
Italy	12	1	13
Sweden	16	1	17
Switzerland	6	5	11
United States of America	33	29	62
40 Other Countries	84	41	125
Totals	2,827	803	3,630

SUMMARY

United Kingdom	2,943
British Commonwealth of Nations ..	352
Other Parts of the World	335
	3,630

APPENDIX IX

UNIVERSITY HONOURS

HIGHER DEGREES

FACULTY OF ARTS

Ph.D. *Ancient Greek History:* M. Amit. *Classical Archaeology:* F. A. R. A. El Fakharani. *English:* L. J. Owen. *Geography:* G. B. G. Bull, H. I. Hassan. *Greek:* Christina Dedoussi. *History:* W. J. Jones, A. J. Loomie, H. G. Owen, P. D. G. Thomas. *Latin:* J. A. Richmond. *Philosophy*: Eva Cassirer, Margaret M. Paton. *Psychology:* Amelia Banks, K. Bir, P. H. Glow, A. Hazari, Moira S. Sansom, Nasim Shaukat, P. H. D. Tacon, Sheila F. Tacon. [21]

M.A. *Architecture:* I. P. Berryman, H. G. Woffenden. *Classics*: J. H. Harrop. *English :* S. R. R. Allsop (Mark of Distinction), Josephine M. Bastian (Mark of Distinction), W. A. Davenport, Diane E. Lane (Mark of Distinction). *Geography:* A. L. Mabogunje, L. J. Smith. *German:* Pamela R. Barnett (Mark of Distinction). [10]

FACULTY OF ECONOMICS

Ph.D. Rita J. Maurice. [1]

FACULTY OF LAWS

Ph.D. R. W. Rideout, A. M. Setalvad. [2]

LL.M. S. C. Agrawal, S. P. Khetarpal, B. T. I. Pollard, S. J. Singh, S. A. Wali. [5]

FACULTY OF SCIENCE

D.Sc. *Biochemistry:* A. L. Greenbaum. *Geology:* L. J. Chubb. *Mathematics:* K. D. Tocher. [3]

Ph.D. *Biochemistry:* E. R. Skinner. *Botany:* S. I. Ali, J. H. Belcher, D. H. Bone, P. A. Gay, R. Knowles, Ellen M. Linday, E. Lodge, J. D. A. Miller, June K. New, R. G. Thomas, J. A. Webb. *Chemical Engineering:* M. C. Reece. *Chemistry:* M. H. Abraham, J. D. Backhurst, P. Ballinger, S. J. Bass, C. F. Blakeley, E. Buncel, H. B. Charman, P. J. Farago, R. H. Flowers, P. E. Francis, T. Hadwick, J. L. Holmes, R. B. Moodie, H. L. Nigam, K. G. Oldham, R. B. Pearson, A. J. Rhind-Tutt, B. Stephenson, B. E. Swedlund, D. J. Thomas, J. G. Tillett, Wong Shun Chu. *Crystallography:* K. V. Krishna Rao, M. R. Leela. *Geology:* M. W. Hughes-Clarke, S. M. Husain, A. J. Martin, D. A. Rasheed. *History and Philosophy of Science:* I. B. Hopley, L. Trengrove. *Mathematics:* I. Danicic, B. Durney, D. J. Mather, D. Ridout, A. R. Yacoub. *Pharmacology:* W. E. Brocklehurst. *Physics:* D. M. Aitken, P. Baxter, F. W. Bullock, G. R. Davies, D. G. Davis, M. J. B. Duff, A. H. Gabriel, G. W. Green, G. V. Groves, F. A. Haas, P. I. P. Kalmus, R. C. Kumar, P. I. Mahadevan, G. W. Roderick, K. P. Sharma,

R. A. P. Singh, K. Smith, J. B. Thompson, N. D. Twiddy, J. B. Willis. *Statistics:* W. D. Ray. *Zoology:* B. G. Gardiner, Pamela L. Robinson, J. P. Stevenson. [73]

M.Sc. *Biochemistry:* B. G. Carter, R. J. B. King, R. A. King. *Chemistry:* R. H. Stone. *Geography:* W. L. Dale. *Geology:* A. S. Halliwell. *History and Philosophy of Science:* S. P. Cooper, Barbara M. Farrington, Nona Gilbert, F. Greenaway, A. M. Jones, N. Lindop, Edith L. Perry, M. A. Wigg. *Microbiology:* Constance M. E. Garrett, C. F. Roberts. *Physics:* W. G. Davies. *Statistics:* Susannah A. Brown, K. S. Gulati. [19]

FACULTY OF ENGINEERING

Ph.D. C. R. Barsby, G. B. Darling, D. Greenaway, M. J. L. Hussey, A. H. Makomaski, R. G. Manton, E. J. Roberts, W. K. Taylor. [8]

M.Sc. S. Kataoka, R. Stockbridge. [2]

UNIVERSITY POSTGRADUATE STUDENTSHIPS

Anatomy: K. E. Webster. *Archaeology:* D. M. Dixon (renewal). *Botany:* Marie N. E. Adams (renewal). *Chemistry:* D. N. Kevill (renewal). *Classics:* Molly M. Wicks. *Comparative Philology:* B. E. Surtees. *English:* Norma F. Bevis, D. J. Lodge, Catriona E. MacGowan (renewal for first term). *French:* Penelope J. V. Bell. *Geography:* R. E. Glasscock, J. L. M. Gulley. *History:* D. J. Johnson, Leila Al Karmy (renewal), A. S. Milward (renewal), Sulamith G. Pfingst, Patricia M. Scholes (renewal for first term), Heather A. Townshend. *Mathematics:* M. J. E. Knowlden. *Scandinavian Studies:* Augusta H. L. Pierce (renewal).

UNIVERSITY STUDENTSHIPS

Anatomy : P. N. Dilly. *Anthropology:* Jocelyne Richard. *Chemistry :* G. Doggett (Neil Arnott Studentship). *English:* Barbara J. Burn. *Fine Art:* Carol A. Burns. *Geology:* P. Strogen. *History:* L. M. Bethell (Derby Studentship). *Physics:* A. D. Martin (Granville Studentship). *Psychology:* Anne R. Grunfeld. *Zoology:* P. Merrett.

OTHER AWARDS

Carpenters' Company's Scholarship: H. A. W. Simons.

Richardson Scholarship for Women: Patricia Hoey.

French Exchange Scheme Studentship: F. Bedarida.

George William Britt (Junior) Studentship in Physics: M. J. Esten.

APPENDIX X

COLLEGE AWARDS TO STUDENTS

I.—ENTRANCE SCHOLARSHIPS

Andrews Scholarships.—Arts: D. Evans (3rd Year); Margaret A. Edwards (2nd Year); Elaine E. Smith, Mexborough Grammar School (1st Year). *Classics:* P. Kingston (3rd Year); R. Landau (2nd Year). *Science:* J. M. Cockcroft (3rd Year); M. E. Flavell (2nd Year); D. F. Scrimshaw, Kingsbury County Grammar School (1st Year).

Bartlett Exhibitions in Architecture.—D. C. Campion (5th Year); E. R. Lane (5th Year); J. D. Starling (4th Year); R. J. Faircliff (3rd Year); Alison K. Fennell (3rd Year); M. W. A. Cassidy (2nd Year); M. E. Finbow (2nd Year); L. Roy, Whitgift School, Croydon (1st Year); E. Waller, Malvern College (1st Year).

Bucknill Medical Scholarship.—D. A. Hems (3rd Year); Helen Dodsworth (2nd Year); R. D. Lund, Bablake School, Coventry (1st Year).

Campbell Clarke Scholarship in English.—G. Aldis (3rd Year).

Goldsmid Scholarships.—Science: R. F. N. Walker (3rd Year); M. J. Benton (2nd Year). *Engineering:* J. W. Pendered (2nd Year); A. W. Horsley, Newport County Secondary Grammar School, Isle of Wight (1st Year).

Hume-Lloyd Scholarship.—J. M. A. Gee, Chichester High School for Boys (1st Year).

Laws Scholarship.—S. M. Oliver (3rd Year).

Exhibitions in Librarianship.—Thérèse M. Lo, University of Hong Kong; Gillian Varley, University of Cape Town.

Rosa Morison Scholarship (Arts).—Muriel Brown (2nd Year); P. Johnson, Ratcliffe College, Leicester (1st Year).

Alfred W. Rich Scholarship (Fine Art).—Hilda Briddon, Camberwell School of Arts and Crafts (1st Year).

St. Pancras Scholarship.—J. F. Hague (2nd Year).

Shell Entrance Scholarship in Chemical Engineering.—J. S. V. McKenzie (3rd Year).

Slade Scholarship.—M. Garton (2nd Year).

Trevelyan Goodall Art Scholarship.—C. J. Paice, University College School (1st Year).

West Entrance Scholarship in English and English History.—I. Smith (2nd Year); J. G. Raws, Calday Grange Grammar School, West Kirby (1st Year).

II.—OTHER SCHOLARSHIPS AND DISTINCTIONS

Anatomy Class Prizes.—Medical: D. M. Ricks. *Dental:* D. K. Madan.

Anatomy and Physiology (B.Sc. Degree) Exhibitions.—Anatomy: M. Faulk. *Physiology:* W. P. T. James, A. A. Schiff.

Anatomy and Physiology (B.Sc. Degree) Scholarships.—Physiology: Sheila B. M. Christie, D. A. Hems, F. Sadikali, R. L. Souhami.

Herbert Batsford Prize (*Architecture*).—M. W. A. Cassidy.

Bayliss-Starling Memorial Scholarship (*Physiology*).—D. Noble.

Ada Heather Bigg Prize (*Economics*).—N. K. Chandra.

Alfred Bossom Prize in Domestic Architecture.—D. A. Hutchison and C. D. Lythe, prize equally divided.

Alfred Bossom Atelier Prizes.—English Architecture: P. M. Hart. *Contemporary Architecture:* I. C. King.

Mary Brodrick Prize. (*Geography*)—M. C. Naish.

'The Builder' Prizes (*Architecture*).—*Measured Drawings* (for work done in the Long Vacation 1957).—*Senior:* Jennifer M. Newell. *Junior:* S. N. P. Marks. *Freehand Drawing:* A. D. C. Hyland.

Carey-Foster Research Prize (*Physics*).—P. D. Niblett.

Chadwick Medal & Prize (*Municipal Engineering*).—A. Holgate.

Churchill-Jenkinson Prize (*Archive Administration*).—R. I. Jack and Felicity Ranger, prize equally divided.

Antonio Cippico Medal and Prize (*Italian*).—Annie C. Miller.

Clinton Prize (*Electrical Engineering*).—J. C. Beal.

Corte Studentship (*Mathematics*).—J. N. Whiteley (2nd Year—1 Term).

Cowley Prizes (*Librarianship and Archive Administration*).—*Librarianship:* H. A. I. Goonetileke, A. H. Smith. *Archive Administration:* Marion T. Hill and K. H. Rogers, prize equally divided.

Dawes Hicks Scholarship in Philosophy.—E. Pivcević.

Derby Scholarship (*Zoology*).—P. Merrett.

Dolley Memorial Prize (*History*).—R. A. Fancourt.

Donaldson Medal and Prize (*Architecture*).—T. L. C. Freeman.

Early English Text Society's Prize.—R. G. Fowler.

Esso Studentships in Chemical Engineering.—D. J. Wilson (2nd Year); M. J. Viney (1st Year).

Sir Banister Fletcher Prize and Medal (*Architecture*).—J. W. C. Darbourne.

Foreign Student Scholarship in Arts.—Dušanka Vučković-Todorović.

Foyle Prize (*Latin*).—R. Landau and Giuliana Sanguinetti, prize equally divided.

Goldsmid Science Postgraduate Scholarship.—P. T. Walsh.

Heimann Medal and Prize (*German*).—Barbara M. Lee.

T. G. Hill Scholarships (*Botany*).—Suzanne E. Arregger; Dinah C. Munroe.

Elsie Hitchcock Prize (*English*).—G. N. Leech.

Hollier Scholarships.—Greek: Dušanka Vučković-Todorović. *Hebrew:* P. N. Ginsbury.

R. B. Hounsfield Prizes.—Town Planning and Civic Engineering: B. J. S. Dowthwaite. *Traffic Engineering:* E. D. Stow.

Joseph Hume Scholarship in Jurisprudence.—J. T. Farrand (2nd Year); J. R. Seargeant (1st Year).

Hurst Prize in English Law.—L. D. Rutman.

Jews' Commemoration Scholarship.—V. R. Mazza, Engineering (2nd Year); Phyllis Millard-Newton, Laws (1st Year).

Jolowicz Prize (Roman Law).—R. W. Harding.

Ker Memorial Prize (English Language and Literature).—Carol A. Hughes and D. W. Paxton, prize equally divided.

Postgraduate Scholarship in Laws.—F. B. Scrivener (2nd Year); W. V. Herber (1st Year).

Leverhulme Studentships in Chemical Engineering.—J. H. Bowen; I. S. Young.

Sir John MacAlister Medal and Prize (Librarianship).—R. Sopher.

Betty Malcolm Scholarship (Stage and Decorative Painting).—I. G. Spurling.

Malden Scholarship (Greek).—J. McNeill.

Medical Postgraduate Scholarship.—M. H. Flint (2nd Year).

Sir William Meyer Studentship (Indian History).—I. J. Catanach (School of Oriental and African Studies).

Momber Scholarship in Physics.—A. L. Read (2nd Year).

Momber Scholarship in Science.—J. Luckman (Statistics).

Rosa Morison Prizes.—French: C. R. Baxter. *Hebrew:* D. Goldstein. *Philosophy:* Brenda M. Almond.

Rosa Morison Scholarship in English Language and Literature.—Helen L. Donaldson (2nd Year); Barbara J. Burn (1st Year).

Morley Medal and Prize (Modern English Literature).—Maureen Amory.

Morris Prize (Geology).—J. B. Kennerley.

Margaret Murray Prize in Egyptology.—D. M. Dixon.

Parry Prize (Geography).—I. G. Simmons.

Perren Studentship (Astronomy).—J. B. Tatum (2nd Year).

Physiology Class Prizes.—Medical: J. M. Collos. *Dental:* I. E. Barnes.

Platt Prizes (Greek).—N. A. Kobish; A. A. Long.

Pollard Prize (History).—L. M. Bethell.

Quain Studentships.—English: A. G. R. Petti (2nd Year). *Biology:* R. S. Clymo (1st Year).

Ramsay Memorial Medal and Prize (Chemistry).—B. M. Gatehouse.

Graham Robertson Travelling Scholarships (Fine Art).—T. E. McGowan; R. D. Norris; I. G. Spurling.

Robert Ross Scholarship (Fine Art).—R. J. C. England.

L. M. Rothschild Scholarship in French.—S. M. Gauna.

Mayer de Rothschild Scholarship in Pure Mathematics.—D. R. Westbrook.

Sharpey Physiological Scholarship.—D. R. Inman (2nd Year).

Slade Scholarships.—M. H. Chilton, N. Crowson.

Stanbury Scholarship in Stage Design.—Carol A. Burns.

Suckling Memorial Prize (Anatomy).—R. L. Souhami.

Sir Andrew Taylor Prizes.—Architecture: Jennifer M. Newell. *Fine Art:* M. J. T. Wharton.

Henry Tonks Prize (Fine Art).—R. D. Norris.

Tuffnell Scholarship (Chemistry).—G. Doggett.

Troughton Postgraduate Scholarship.—J. Luckman.

University College School Centenary Postgraduate Scholarship.—M. H. Flint.

L. F. Vernon-Harcourt Prize (Civil Engineering).—L. C. Lillywhite.

Thomas Viola Prize (Stage Design).—Anne Gainsford.

Ellen Watson Memorial Scholarship in Applied Mathematics.—M. Levison.

APPENDIX XI

EXAMINATION RESULTS

FACULTY OF ARTS

B.A. (Honours)	*1st Class*	*2nd Class*		*3rd Class*	*Total*
		Upper Div.	*Lower Div.*		
Anthropology	—	1	2	—	3
Classics	4	1	3	4	12
English	2	7	16	5	30
French	2	3	9	7	21
Geography	1	5	9	1	16
German	—	2	7	3	12
Greek	—	1	—	—	1
Hebrew	—	—	—	2	2
History	1	14	17	1	33
Italian	—	2	—	1	3
Latin	2	2	2	—	6
Mathematics	—	1	—	—	1
Philosophy and Psychology	—	2	—	—	2
Philosophy	—	2	3	—	5
Psychology	3	—	2	2	7
	15	43	70	26	154

	1st Class Honours	*2nd Class Honours*	*Pass*	*Total*
B.A. Architecture	—	1	1	2

FACULTY OF ECONOMICS

	1st Class Honours	*2nd Class Honours*		*Pass*	*Total*
		Upper Div.	*Lower Div.*		
B.Sc. (Economics)	—	12*	18†	6†	36

* Includes one student also registered at another Institution.
† Includes two students also registered at another Institution.

FACULTY OF LAWS

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	Pass	Total
LL.B.	1	8	37	31	77

FACULTY OF SCIENCE

B.Sc. (Special)	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Total
Anatomy	2	3	1	—	6
Anthropology	1	—	—	—	1
Biochemistry	—	3	2	—	5
Botany	—	1	5	2	8
Chemistry	5	9	16	9	39
Geography	—	3	6	—	9
Geology	1	2	1	1	5
Mathematics	4	3	5	8	20
Physics	8	10	15	2	35
Physiology	1	6	7	—	14
Psychology	1	1	2	1	5
Statistics	—	6		1	7
Zoology	2	4		—	6
	25	41 10	60	24	160

B.Sc. Degree	Pass	Total
Chemistry	1	1
Statistics	3	3
	4	4

	1st Class Honours	2nd Class Honours	Pass	Total
B.Sc. (General)	—	4	5	9

FACULTY OF ENGINEERING

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	Pass Degree	Total
B.Sc. (Engineering)	5	5	6	17	33
B.Sc. (Engineering) Chemical Engineering	4	3	5	5	17

FACULTY OF MEDICINE

Second Examination for Medical Degrees: 62 students passed.

APPENDIX XII

BENEFACTIONS AND DONATIONS

The College Committee makes grateful acknowledgment of the following gifts:

Admiralty

A grant not exceeding £2,056 for the period from 2 May 1958 to 30 September 1958 for research in the Department of Electrical Engineering on the transmission of microwave power.

Agricultural Research Council

(1) A grant not exceeding £962 for the period 1 October 1957 to 31 March 1959 for research in the Department of Botany into metabolism of certain newer amino and imino acids by soil micro-organisms.

(2) A grant of £782 for a period of eighteen months from 1 January 1958 for research in the Department of Biochemistry on the mammary gland.

(3) A grant of £224 for a period of six months from 1 April 1958 for research in the Department of Zoology on cytological effects of inbreeding in Drosophila.

Anglo-Brazilian Chamber of Commerce

A grant not exceeding £50 for the purchase of books for the Latin American History Library.

Anonymous

Two grants of £250 for expenses involved in researches conducted by the Galton Laboratory.

Mr H. Arthur Baker

A legacy to the College amounting to £191 net.

Mrs W. Bedford

Two legacies, namely the Wilhelmina Bedford estate and the William Bedford estate, amounting to £5,324, for the establishment of a Francis Perch Bedford Fund and Library for the assistance of the staff and students of the Department of Zoology in connection with their studies in Zoology.

British Celanese Limited

A grant of £100 for the general upkeep of the Department of Chemical Engineering.

British Empire Cancer Campaign

(1) An additional grant of £125 for the year 1957, and grants amounting to £2,555 for the year 1958, for research in the Department of Chemistry on cancer.

(2) A grant of £700 for the year 1958 for research in the Department of Zoology on cancer.

(3) A grant of £2,738 for a period of one year from 1 January 1958 for research in the Department of Anatomy and Embryology on the movements of cells, and particularly the movements of cancer cells.

British Transport Commission

A grant of £1,750 per annum for two years from 1 March 1958 for an investigation in the Department of Mechanical Engineering into the oscillation of rolling stock.

Cement and Concrete Association

A grant of £236 for the Department of Civil and Municipal Engineering towards the cost of making research apparatus for the holder of a Shell Research Scholarship.

Department of Scientific and Industrial Research

(1) A supplementary grant of £140 for the period 1 October 1956 to 30 September 1958 for research in the Department of Physics into nuclear scattering of fast electrons.

(2) A grant of £22,000 for a period of three years ending 31 July 1960 for experimental research in the Department of Physics using the CERN synchro-cyclotron into the polarisation of neutrons and recoil protons.

(3) A grant not exceeding £2,150 for a period of three years ending 30 September 1960 for research in the Department of Physics into the scattering of electrons in the range 4–30 MeV.

(4) A grant of £3,000 for one year ending 31 December 1958 for research in the Department of Physics on the scattering of neutrons by deuterons.

(5) A grant not exceeding £1,640 for the period 1 October 1957 to 30 September 1959 for research in the Department of Chemistry into extinction in crystal diffusion processes.

(6) A grant of £550 for the period 1 April to 30 September 1958 for research in the Department of Electrical Engineering on the propagation of surface radio waves.

(7) A grant of £1,965 for a period of three years from 1 May 1958 for research in the Department of Zoology on anatomy and function of the olfactory brain of reptiles.

(8) A grant not exceeding £2,690 for a period of two years from 1 October 1958 for research in the Department of Physics on the study of K particles, hyperons and negative protons produced by high energy accelerators using nuclear emulsions.

Distillers' Company Limited

A grant of £500 per annum for three years from 1 December 1957 for research work in the Department of Chemical Engineering.

Du Pont de Nemours Company Ltd

A grant of $6,000 for one year from 1 March 1958 for fundamental research in the Department of Chemistry on tungsten and molybdenum.

Esso Research Ltd

A grant of £500 for one year from 1 October 1957 to support a postgraduate student in the Department of Chemistry.

Messrs Film Cooling Towers (1925) Ltd

A cooling tower (approximate value £350) for use in the Department of Mechanical Engineering.

Ford Foundation

A grant of $112,000 for a period of five years for research and research training to be undertaken by the Committee for Urban Studies in the Department of Town Planning.

Godman Exploration Fund

A grant of £150 for research in the Department of Zoology in connection with vertebrate fossils.

Arthur Guinness Son and Company (Park Royal) Limited

A grant of £1,739 per annum gross under covenant for a period of seven years for a Lectureship in Biochemical Engineering to be called 'The Guinness Lectureship'.

Messrs G. A. Harvey and Company Limited

A Schenk fatigue testing machine (approximate value £3,000) for photoelastic work undertaken in the Department of Civil and Municipal Engineering in connection with an investigation of stresses in a high altitude test cell for jet engines.

Hispanic and Luso-Brazilian Council

A grant of £50 for use in the Latin American History Library and the Institute of Historical Research.

Home Office

An additional grant of £275 for one year ending 31 March 1958 for research in the Department of Psychology into the results of approved school training.

Institute of Seaweed Research

A grant of £457 for one year from 1 October 1957 for an investigation in the Department of Botany into the chemical composition of marine micro-algae when grown in culture.

International Arbitration League

A grant of £1,000 for the establishment of a scholarship to permit senior students to visit the International Academy at the Hague, such scholarship to be called the Sir Randall Cremer Scholarship.

Iraqi Ministry of Education

A grant of £100 for the Department of Anthropology towards the cost of preparing a revised typescript, half-tone plates and printing costs, of a study on the Marsh Arabs of Southern Iraq.

Leverhulme Trust Fund

(1) Funds to support an Assistant Lecturer in Hispanic and Latin American History for a period of three years, with a possible extension to a fourth year.

(2) A grant of £4,550 for a period of four years from the beginning of the session 1958–59 to support a Lecturer in Latin American Geography.

Marks and Spencer Limited

A further grant of £20,000 under a deed of covenant towards the construction of the New Refectory.

Sir Simon Marks Charitable Trust

A grant of £20,000 towards the construction of the New Refectory.

Medical Research Council

(1) A grant not exceeding £200 for one year from 17 September 1957 for work in the Department of Biochemistry on the construction of a microreaction calorimeter for the determination of the heats of reaction of antibodies with antigens.

(2) A grant of £750 for a period of one year from 1 October 1957 for research in the Department of Biochemistry on the physico-chemical properties of various guandine bases.

(3) A grant of £650 for one year from 1 October 1957 for the Department of Chemistry, for technical assistance for Professor Dame Kathleen Lonsdale.

(4) A grant of £550 for one year from 1 October 1957 for the Department of Biophysics, for physico-chemical studies of mammalian neuro-muscular and synoptic transmission.

(5) A grant of £1,600 for a period of one year from 1 October 1957 for research in the Department of Phonetics on the nature of thinking as revealed through the speech process.

(6) A grant of £1,450 for one year from 1 October 1957 for research in the Department of Physiology on the physiology of connective tissue to be carried out under the direction of Dr Harkness.

(7) A grant of £950 for one year from 22 October 1957 for preparation in the Department of Chemistry of oxygenated iron-indigo and cobalt complexes and the study of their structure by chemical and physical techniques.

(8) A grant of £1,050 for one year from 1 November 1957 for the Student Health Association, for work on medical and social factors in relation to academic performance.

(9) A grant of £700 for the purchase of special apparatus for use in the construction of a micro-reaction calorimeter in the Department of Biochemistry.

(10) A grant of £950 for the period 22 October 1958 to 21 October 1959 for the Department of Chemistry, for the preparation of oxygenated iron-indigo and cobalt complexes and the study of their structure by chemical and physical techniques.

Ministry of Supply

(1) A grant not exceeding £372 for the period 1 June to 30 November 1957 for an investigation in the Department of Mechanical Engineering into the fundamental mechanisms governing combustion inhibition by flame traps.

(2) A grant not exceeding £276 for the period 1 June to 30 September 1957 for research in the Department of Mechanical Engineering into the inhibition of combustion in hydrocarbon air mixture by water sprays.

(3) A grant not exceeding £1,363 for one year from 15 June 1957 for research in the Department of Civil and Municipal Engineering on the effects of thermal conditions in aircraft camera windows, and of heating systems, on the resolution of aircraft cameras.

(4) A grant not exceeding £529 for one year from 1 July 1957 for research in the Department of Civil and Municipal Engineering on assessment and trials of a precise photogrammetric plotting machine.

(5) A grant of £2,500 for one year from 1 October 1957 for research in the Department of Physics on measurement of electron attachment coefficients in low pressure gases.

(6) A grant of £2,395 for one year from 1 October 1957 for research in the Department of Phonetics on sound coded speech.

(7) A grant of £1,520 for one year from 1 October 1957 for research in the Department of Civil and Municipal Engineering on photoelastic studies of stresses in bars and tubes.

(8) A grant not exceeding £1,104 for one year from 1 October 1957 for studies in the Department of Chemistry on the structures of explosives by nuclear magnetic resonance and quadrupole spectra.

(9) A grant not exceeding £925 for one year from 1 October 1957 for an investigation in the Department of Electrical Engineering of the circuit properties of micro-wave mixers.

(10) An additional grant of £760 for the period 1 October 1954 to 30 September 1958 for an investigation in the Department of Physics on measurement methods for ionized gases.

National Coal Board

A grant not exceeding £800 for the period 1 January to 31 March 1958 for research in the Department of Psychology into the causes of accidents to coal miners.

National Science Foundation

A grant of £137 for the Department of Chemistry for the purchase of equipment for use in connection with research on kinetic and equilibrium salt effects.

Northwood Centre, University of London Extension Lectures

A grant of £15 as a donation to the Grants and Loans Fund.

Nuffield Foundation

(1) A grant of £1,500 for one year from 1 August 1957 for research in the Department of Zoology on ageing.

(2) A supplementary grant of £792 for the period 1 August 1957 to 31 October 1959 for research in the Department of Botany on the physiology and biochemistry of algae.

(3) A grant of £520 for a period of two years from 1 August 1957 for further studies in the Department of Anatomy and Embryology in cerebral mechanisms.

(4) A grant of £1,500 per annum for the period 1 October 1957 to 30 September 1959 for special biochemical research in the Department of Eugenics, Biometry and Genetics into causes and treatment of mental defect.

(5) A supplementary grant of £200 for one year from 1 October 1957 for a study in the Department of Chemistry of enzymic reactions with special reference to inorganic complex chemistry.

(6) A grant of £1,375 for the period 1 February to 31 July 1958 and a grant of £1,200 per annum from 1 August 1958 for the Department of Botany for the maintenance of the Nuffield Botanic Research Garden.

(7) A grant of £34,000 for the Department of Anatomy and Embryology, for the construction of a large-scale 'Analogue Computer and Cerebral Mechanism'.

(8) A grant of £15,000 for a period of five years for the purchase of equipment for use in research and for scientific and technical assistance, etc., in the Department of Biophysics.

(9) A grant of £9,250 for a period of three years for the establishment of a small developmental biological research unit under the direction of Dr Newth in the Department of Zoology, and a grant of £1,750 for the initial capital expenditure involved.

(10) A grant of £9,250 for a period of five years for the Department of Zoology to enable Dr A. Comfort to continue his research into ageing.

(11) A grant of £6,000 for a period of three years for work in the Department of Chemistry on the mechanisms of processes catalysed by enzymes.

(12) A grant of £4,884 for a period of three years for an enquiry in the Department of Botany into biochemical genetics of higher plants.

(13) A grant of £1,850 for the Department of Botany, for the acquisition and installation of cooling equipment in the control departments of the phytotron at the Nuffield Gardens.

(14) A grant of £1,600 for a period of two years for research in the Department of Botany on acetate metabolism.

(15) A grant of £1,000 per annum for three years for research in genetics in the Department of Zoology.

Mr T. F. Reddaway

Two silver salt cellars and spoons.

Rockefeller Foundation

(1) A grant not exceeding £600 for one year ending 30 September 1958 for research in the Department of Botany in plant physiology.

(2) A grant of $35,000 for the period 1 July 1958 to 30 June 1963 for research on mammalian genetics being undertaken by Professor H. Grüneberg in the Department of Eugenics, Biometry and Genetics.

(3) A grant of £1,000 for one year from 14 May 1958 to enable Professor T. Thomson Flynn to work on the Hill Collection in the Department of Zoology.

Royal Society

(Gassiot Committee) (1) A grant of £3,223 for one year from 1 October 1957 for Rocket research in the Department of Physics.

(Gassiot Committee) (2) A grant not exceeding £810 for one year from 1 October 1957 for research in the Department of Physics on high speed particle reactions.

(3) A grant not exceeding £600 for the Department of Astronomy for the purchase of equipment for the photography of artificial earth satellites.

(4) A grant not exceeding £1,750 for 1958–59 for the Department of Physics, for equipment to track artificial earth satellites by a photomultiplier, for running costs, and for the salary of an assistant.

(5) A grant not exceeding £750 for 1958–59 for the Department of Physics for the salary of an assistant to make studies of theoretical problems associated with artificial earth satellites.

(6) A grant of £100 for the Department of Mathematics towards the cost of publishing *Mathematika*.

(7) A grant of £500 for research carried out by Dr M. de B. Daly in the Department of Physiology on circulation and respiration.

SHELL PETROLEUM CO. LTD

A grant of £60 for 1958–59 for the Department of Geology for field work.

MESSRS SMITH, KLINE & FRENCH LTD

A grant of £797 for the purchase of a main air-conditioning machine for the Biochemistry Department in the New Biological Sciences Block.

SIR HALLEY STEWART TRUST

A grant of £500 per annum for two years for research in the Department of Town Planning to be undertaken by the Committee for Urban Studies.

DR MARIE STOPES

A gift to the Fellows of University College of ten silver gilt fruit plates, knives and forks.

MRS CATHARINE TUDOR-HART

Optical apparatus belonging to the late Percyval Tudor-Hart for the Department of Physics.

UNITED KINGDOM ATOMIC ENERGY AUTHORITY

(1) A grant of £300 for one year from 1 July 1947 for an investigation in the Department of Physics on a design study for a high energy accelerator.

(2) A grant of £1,300 for one year from 1 October 1957 for the Department of Physics for cloud chamber development.

(3) A grant not exceeding £1,000 for the period 1 January to 31 December 1958 for a spectroscopic study in the Department of Chemistry of metal complexes with special reference to Ruthenium Compounds.

UNITED STATES DEPARTMENT OF HEALTH, EDUCATION AND WELFARE

(1) A grant of $500 for one year from 1 September 1957 for research in the Department of Physiology on neuromuscular fatigue and facilitation in mammals.

(2) A grant of $500 for the period 10 March 1958 to 10 March 1959 for research in the Department of Biophysics on muscle permeability.

WELLCOME TRUST

(1) A grant not exceeding £5,000 for a period of five years from 1 October 1958 for the Department of Zoology to provide the stipend for a Wellcome Research Fellowship in Protozoology.

(2) A grant not exceeding £2,500 for the two years 1958 and 1959, for fees for computations in connection with crystallographic researches in the Department of Chemistry.

(3) A grant of £1,100 for one year from 1 January 1958 for research in the Department of Pharmacology on the action of salicylates on tissue fluids in mammals.

(4) A grant of £650 for one year for research in the Department of Anthropology into the serology of certain Hindu populations in the United Kingdom.

GIFTS TO THE LIBRARY

The largest individual gift received by the Library consisted of some 400 volumes on mathematics, physics and engineering, presented by Mrs Davidge, in accordance with the wishes of her husband, the late H. T. Davidge, formerly a Senior Lecturer in the Faculty of Engineering of the College and sometime Sub-Dean of the Faculty. After the death of the late H. J. Evans, who, on his retirement in 1951, had been in the Chemistry Department of the College, first as a student and later as a member of the staff, for forty years, Mrs Evans gave the Library 70 books and a Georgian glazed book-case. A handsome collection of 65 volumes of the classics in full morocco bindings was presented by Lord Cromer, a member of the College Committee, from the library of his grandfather the First Earl of Cromer. A former student of the College, Miss M. D. Birt, left a collection of 50 Italian and German books to the College Library. The London History Library received an interesting addition of 40 books from the library of the late Major Heydeman through the Library of the University of London. A collection of photographs, anatomical drawings and notebooks of Sir George Thane, Professor of Anatomy, 1877–1919, was presented by his daughter Miss Vendla Thane.

APPENDIX XIII

COLLEGE ACCOUNTS 1957–58

The Accounts for the year 1957–58, which follow on pages 92–95, comprise the Balance Sheet and the Income and Expenditure Account.

BALANCE SHEET

Features of special interest were:

LIABILITIES

The Capital Account has been increased by £434,127, which represents the capitalisation of the cost of new construction and adaptation of premises completed during the years 1946–58. The sums now capitalised appeared formerly in the account of Rehabilitation and Development which has been closed.

Sundry Funds show an increase of £108,146 over the corresponding figure for the previous year, which consists mainly of further receipts for the Engineering Appeal (£46,000), Superannuation Funds (£21,000), Long-Term Maintenance (£13,000), the New Refectory (£9,500), and the Ramsay Centenary Appeal (£10,500).

Unexpended Balances increased by £84,677, which included War Damage Compensation received (£49,000), balances of Academic and Library grants (£10,000), provision for Maintenance of Premises (£10,000), and balances in hand under Extra-Budgetary Activities explained on page 90 (£8,000).

ASSETS

The value of Freehold and Leasehold Properties has been increased by the same sum (£434,127) by which the capital account has been increased, as already mentioned.

Capital and other works in progress show an excess of payments over receipts of £202,893, which will be covered in due course by Capital Grants, Appeal Funds, and by other means.

Investments show a net increase of £230,097 in book value, consisting of the temporary investment of War Damage Compensation (£160,000), and of proceeds of the Engineering Appeal (£60,000).

TRUST FUNDS

The College holds endowments in the form of 174 separate Trust Funds with a total value of over £1,119,500. They yield a gross income of £51,000 per annum.

INCOME AND EXPENDITURE

The Income and Expenditure account shows a surplus of £3,717, as compared with a deficit of £14,478 for the previous year.

Income exceeded that of the previous year by £257,904. This was mainly accounted for by an increase of £123,563 in the grants from the University ear-marked for increases in salaries of academic staff and senior administrative and library staffs of comparable status; an increase of £103,075 (or 9·7%) in the block grant from the University for the first year of the new quinquennium; increase in receipts from fees of £24,986, due to the revised scale of fees put into operation under the scheme for the equalisation of fees for the schools of the University.

Total expenditure was £239,709 more than in 1956–57, the main features of which were:

(*a*) Revision of Academic salaries, already mentioned (£123,563).

(*b*) Maintenance of Premises (£44,890), due to the extra cost of maintaining new accommodation coming into use, a programme of overtaking arrears of maintenance, and the institution of a long-term maintenance reserve.

(*c*) Normal increments for staff in standard scales, consequential salary increases for those not included in the scheme of revision, technicians' wage increases under a national award, and increased supplementation of pensions of retired staff.

The percentages of the income and expenditure under the main classifications in the years 1955–56 to 1957–58 are shown in the following table:

EXPENDITURE	1955–6 %	1956–7 %	1957–8 %
Salaries and Pensions of Teaching Staff	49·0	47·8	49·2
Departmental Expenses, incl. Library ..	26·0	26·3	24·1
Maintenance of Premises ..	12·5	13·4	14·2
Administration ..	7·3	7·3	7·7
Other	5·2	5·2	4·8
	100·0	100·0	100·0

INCOME	1955–6 %	1956–7 %	1957–8 %
Endowments ..	3·6	3·7	3·1
Grants	83·9	84·1	84·7
Donations ..	0·5	0·4	0·5
Fees	10·4	10·6	10·4
Other	1·6	1·2	1·3
	100·0	100·0	100·0

EXTRA-BUDGETARY ACTIVITIES

Under this general description the College handles the financial administration of research projects financed by outside sources. At 31 July 1958 140 research projects were being actively pursued. Receipts from grant-making bodies totalled £130,578 in the year, and payments made against the grants totalled £120,885. A net surplus of grants received over payments made in anticipation of grants amounted to £11,359, and receipts by the College in respect of overhead and administration costs totalled £1,145.

CAPITAL GRANTS

Capital Grants made during the year 1957–58 were as follows:	£
Erection of Biological Sciences Block, Stage I:	
Increases in cost of labour and materials, professional fees ..	5,267
Purchase of furniture	8,220
Erection of Biological Sciences Block, Stage II:	
Increases in cost of labour and materials, professional fees, additional building work	17,460
Purchase of equipment	88,300
Purchase of furniture	10,115
Erection of Biological Sciences Block, Stage III:	
Building contract, professional fees, increases in cost of labour ..	223,258
Erection of Biological Sciences Block, Stage IV: steelwork	7,750
Adaptation of 25 Gordon Street:	
Fire precautions, increases in cost of labour and materials, professional fees, additional building work	18,815
Purchase of furniture	35,363
Purchase of equipment	6,665
Development of Athletic Ground at Shenley, Stage I:	
Additional building work, increases in cost of labour, professional fees	1,022
Purchase of furniture and equipment	1,316
Improvements to Steam Supply: increases in cost of labour and materials, professional fees, additional building work	786
Provision of additional accommodation for Department of Pharmacology:	
Building work	1,885
Purchase of furniture	494
Conversion of 33–35 Torrington Place for Department of Laws:	
Increase in cost of labour and materials, professional fees, additional building work	1,253
Purchase of furniture and equipment	4,710
Conversion of 27 Cartwright Gardens as Annexe to Bentham Hall of Residence:	
Additional building work, professional fees..	631
Purchase of furniture	2,646
Conversion of 22 Gordon Square to provide accommodation for Bursar's Department:	
Additional building work, increase in cost of labour, professional fees	306
Purchase of furniture and equipment	1,238

Provision of Telephone Exchange on first floor of South Wing ..	1,173
Purchase of equipment for Departments of Physiology and Pharmacology	7,944
Animal House, Stage II:	
Building work, professional fees, increases in cost of labour ..	41,766
Purchase of equipment and furniture	9,714
Conversion of Flats in Malet Place for Maintenance Staff:	
Building work	2,750
Alterations in Foster Court for Department of Geography:	
Building work	2,602
Purchase of furniture and equipment	4,047
Adaptation of 16 Gordon Square to provide additional accommodation for Department of Psychology:	
Purchase of equipment and furniture	4,260
Building work, professional fees	8,713
Engineering Building, Stage I:	
Building work, professional fees, increase in cost of labour ..	180,956
	£701,425

SCHOLARSHIPS AND PRIZES

Expenditure upon these awards amounted to £11,123 in 1957–58. Awards were made as under:

	Undergraduate			*Postgraduate*		
	£	*s.*	*d.*	£	*s.*	*d.*
From Endowments	2,793	1	6	965	9	0
,, Donations and Subscriptions	649	0	0	3,514	13	4
,, General Income	1,075	6	4	1,701	19	10
,, General Income: Exhibition Bursaries and special fee remissions	314	16	0	108	14	0
	£4,832	3	10	£6,290	16	2

LIABILITIES, CAPITAL ACCOUNT, RESERVES AND OTHER FUNDS

31.7.57 £		£	£	£
	College General Capital Account as at 31 July, 1957 ..		1,212,416	
	Add: (*a*) Capital Grants for New Construction 1946–58 completed and now capitalised		404,937	
	(*b*) Capital Grants for Conversion of Leasehold Properties:			
	Bentham Hall	37,902		
	11 Chester Terrace	6,400		
			44,302	
			1,661,655	
	Less: Amortization of Leasehold Properties..		15,112	
1,212,416				1,646,543
35,638	Redemption Funds			39,503
288,485	Sundry Funds			396,632
—	Income and Expenditure Account			3,717
1,536,539				2,086,395
56,610	Loans			52,869
170,823	Unexpended Balances			255,501
146,911	Current Liabilities			189,336
1,910,883				2,584,101
986,692	Trust Funds			977,693
£2,897,575				£3,561,794

NOTES

1. The values at which College Freehold Lands, Buildings, Furniture and Library (*£1,676,352*) College Leasehold Property (*£55,472*) and Capital and Other Works in Progress (*£202,893*) appear in the Balance Sheet will be subject to adjustment on final settlement of War Damage Claims.

2. Expenditure shown in the Income and Expenditure Account (pages 94 and 95) includes the increase in net unexpended balances of grants from University Court amounting to £22,120.

We have audited the above balance sheet and the annexed income and expenditure true and fair view of the state of affairs of University College London at 31st July, expended during the year out of non-recurrent grants received from the University properly applied to those purposes.

3 Frederick's Place, Old Jewry, London, E.C.2.
28 November 1958.

ASSETS

31.7.57 £		£	£
1,277,549	College Freehold Lands, Buildings, Furniture, and Library		1,676,352
45,782	College Leasehold Property, at Cost	90,085	
19,446	*Less:* Amortization to date	34,613	
(26,336)			55,472
1,303,885			1,731,824
237,037	Capital and Other Works in Progress *less* capital grants and other capital receipts		202,893
	Investments		
246,176	General College and Redemption Funds	474,273	
22,000	*Less:* Depreciation	20,000	
(224,176)	(Market Value 31 July, 1958, £454,492)		454,273
27,824	Expenditure Recoverable from Future Grants		22,019
117,961	Current Assets including prepayments		173,092
1,910,883			2,584,101
986,692	Trust Funds		977,693
£2,897,575			£3,561,794

account. In our opinion (*a*) the said accounts give subject to the above notes a
1958, and of the income and expenditure for the year ended on that date: (*b*) moneys
Court and other funds administered by the College for specific purposes have been

Price Waterhouse & Co.
Chartered Accountants

EXPENDITURE

1956–57 £			1957–58 £	£
	ADMINISTRATION			
61,573	Salaries		75,392	
3,723	Payments for Superannuation		5,185	
24,830	Advertising, Printing, Stationery, Postage, and Telephone		29,000	
3,154	Other Expenses (including Audit and Legal Fees)		7,427	
(93,280)				117,004
	DEPARTMENTAL MAINTENANCE			
561,121	Salaries of Teaching Staff		685,208	
50,267	Payments for Superannuation		62,488	
165,442	Departmental Wages (including Superannuation)		173,566	
119,982	Departmental and Laboratory Maintenance		129,926	
51,710	Libraries		62,000	
(948,522)				1,113,188
	MAINTENANCE OF PREMISES			
26,878	Rates and Insurance		31,568	
42,916	Heat, Light, Water, and Power		49,809	
75,643	Ordinary Repairs and General Maintenance of Buildings		107,576	
26,177	Wages of Porters and Attendants (including Superannuation)		27,551	
(171,614)				216,504
	MISCELLANEOUS EXPENDITURE			
5,850	Pensions for Retired Members of Staff		10,196	
340	Grants from Benevolent Fund		175	
112	Examiners' Fees		191	
3,968	Interest on Overdrafts, Mortgages, etc.		2,878	
11,926	Scholarships and Prizes		11,123	
18,100	Grants to Students' Societies		18,840	
	Deficits on Income and Expenditure Accounts for Halls of Residence, Refectories, etc.:			
153	*Staff Accommodation*		—	
	Refectory:	£		
750	Subvention	875		
5,239	Loss written off	3,817		
			4,692	
	OTHER EXPENDITURE			
993	Salaries of Wardens of Halls of Residence	1,750		
55	Payments for Superannuation	57		
			1,807	
	Rent and Other Payments for Use of Buildings:			
2,611	Halls of Residence	5,052		
1,013	Other Buildings	773		
			5,825	
12,397	Other Items		14,107	
(63,507)				69,834
	CAPITAL EXPENDITURE MET FROM INCOME			
2,534	Mortgage Loan on Gordon Street Frontage			2,636
1,279,457				1,519,166
—	Excess of Income over Expenditure for the year			3,717
£1,279,457				£1,522,883

INCOME

1956–57 £		1957–58 £	£
	Endowments		
46,613	Income appropriated to meet expenditure for particular purposes specified by Trust	46,825	
640	Income appropriated to meet expenditure on general purposes (Bawden Fund)	640	
(47,253)			47,465
	Donations and Subscriptions: Appropriated for:		
805	Special Purposes	3,269	
4,356	Scholarships and Bursaries	4,163	
(5,161)			7,432
	Grants		
985,394	From University Court	1,166,326	
76,160	do. Earmarked Grant for Academic salary increases ..	123,563	
1,697	*do. Scheme for the Alleviation of Superannuation Hardship*	—	
(1,063,251)			1,289,889
	Fees		
132,991	General	157,981	
736	Examination and Registration Fees	754	
405	Exhibition Bursaries and Special Free Remissions	384	
(134,132)			159,119
1,991	**Contributions for Services Rendered**		1,610
	Surplus from Income and Expenditure Accounts for College Properties, Halls of Residence, Refectories, etc.		
1,508	College Properties		953
11,683	**Other Items**		16,415
1,264,979			1,522,883
14,478	*Excess of Expenditure over Income for the year*		—
£1,279,457			£1,522,883

NOTE

In addition to the Income and Expenditure shown in this account, sums totalling £120,884 were spent on Extra-budgetary activities. Grants to cover this expenditure have been or will be received.

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